**Klaus Hubacek**

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Scopus ID: 55802235200

(May, 2023)

# Personal Information

### Education

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| --- | --- | --- |
| Rensselaer Polytechnic Institute, Troy, NY | Ph.D. in Ecological Economics  | Dec. 2000 |
| Rensselaer Polytechnic Institute | M.Sc. in Economics  | Dec. 1998 |
| University of Economics and Business, Vienna, Austria | B.A. in Business Administration (Magister)  | June 1991 |

### Appointments

**2020-present** Adjunct Professor, Geographical Sciences, University of Maryland, College Park, USA

**2020-present** Visiting Professor, Shandong University, China

**2019-present** Chair of the Board of the Energy Sustainability Research Institute (ESRIG), University of Groningen, Groningen, the Netherlands

**2019-present** Chair of Integrated Research on Energy, Environment and Society (IREES), University of Groningen, Groningen, the Netherlands

**2019-present** Professor, University of Groningen, Groningen, the Netherlands

**1999-present** Affiliated Research Scholar at the International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria.

**2011-2018** Professor, Geographical Sciences, University of Maryland, College Park, USA

**2015-2016** Visiting Professor, Beijing Normal University, Beijing**,** China.

**2014-2017** Visiting Professor, China Academy of Sciences, Beijing, China.

**2010-2013** Senior Research Fellow, Department for Land Economy, University of Cambridge, UK.

**2006-2010** Reader (Associate Professor) in Sustainable Development, School of Earth and Environment, University of Leeds, UK.

**2002-2006** Lecturer (Assistant Professor) at the School for the Environment, University of Leeds, UK.

**2002** Visiting scholar, Institute of Social Ecology, Alpen Adria University Klagenfurt, Austria.

**2001** Visiting assistant professor, Western Maryland College (now McDaniel), Westminster, MD.

**2000-2001** Post-doctoral research fellow and instructor, Rensselaer Polytechnic Institute, Troy, NY.

**1996-2000** PhD student Rensselaer Polytechnic Institute, Troy, NY.

**1991-1996** Instructor and researcher at the Interdisciplinary Institute for Environmental Economics and Management, University of Economics and Business, Vienna, Austria.

**1989-1990** Free-lance researcher, Austrian Institute for Applied Ecology (Ökologieinstitut).

## Research

**Publication statistics** (in Google Scholar, January 2024)

|  |  |  |  |
| --- | --- | --- | --- |
| Peer reviewed journal articles  | ~250 | Book chapters in edited volumes | 43 |
| Books  | 3 | i-10 index  | 254 |
| Edited books, special issues and proceedings | 14 | H-index Google Scholar | 101 |
| Papers in PNAS, Nature, Science and Cell research journals | ~40 | Citations in Google Scholar | 41,000+ |

## Peer-reviewed articles in journals

# Citation Impact factors (IF) of journals taken from Web of Science; \* refers to corresponding author, # supervised students, post-docs or visiting scholars as first authors

1. Peipei Tian, Kuishuang Feng\*, Laixiang Sun\*, Klaus Hubacek, Daniele Malerba, Honglin Zhong, Heran Zheng, Dan Li, Ning Zhang\*, Jiashuo Li (forthcoming). “Higher total energy costs strain elderly, especially low-income, across 31 developed countries. ***PNAS***.
2. He, Pan, Zhu Liu, Giovanni Baiocchi, Dabo Guan, Yan Bai, Klaus Hubacek (2024). “Health–environment efficiency of diets shows nonlinear trends over 1990–2011.” ***Nature Food***. <https://doi.org/10.1038/s43016-024-00924-z>
3. Elena Vaagenes Andersen, Yuli Shan, Benedikt Bruckner, Martin Černý, Kaan Hidiroglu, Klaus Hubacek, (2024). “The vulnerability of shifting towards a greener world: The impact of the EU's green transition on material demand,” ***Sustainable Horizons***, Volume 10, 100087, <https://doi.org/10.1016/j.horiz.2023.100087>
4. Kito, Minami, Yuya Nakamoto, Shigemi Kagawa, Shunichi Hienuki, Klaus Hubacek (2024). “Environmental Consequences of Japan’s Ban on the Sale of New Fossil fuel-powered Passenger Vehicles from 2035.” ***Journal of Cleaner Production***, Volume 437, 140658. <https://doi.org/10.1016/j.jclepro.2024.140658>
5. Shaojian Wang, Junyi Liang, Xiangjie Chen, Chuanglin Fang, Kangyao Liu, Jieyu Wang, Kuishuang Feng, Zhu Liu, Klaus Hubacek, Xiaoping Liu. (2024). The impact of international trade on environmental vulnerability. ***Science Bulletin***, Volume 69, Issue 4, Pages 426-430. <https://doi.org/10.1016/j.scib.2023.12.029>
6. Franco Ruzzenenti, Rob ter Burg, Yuli Shan, Klaus Hubacek, and Rossana Mastrandrea Assessments of the environmental performance of global companies need to account for company size". ***Communications Earth & Environment*** 5, 42, <https://doi.org/10.1038/s43247-024-01200-5>
7. Martin Černý, Martin Bruckner, Jan Weinzettel, Kirsten Wiebe, Christian Kimmich, Christian Kerschner and Klaus Hubacek (2024). Global employment and skill level requirements for ‘Post-Carbon Europe’. ***Ecological Economics***, Volume 216, 108014. <https://doi.org/10.1016/j.ecolecon.2023.108014>
8. Jing-Li Fan, Zezheng Li, Xi Huang, Kai Li, Xian Zhang, Xi Lu, Jianzhong Wu, Klaus Hubacek & Bo Shen. (2023). “A net-zero emissions strategy for China’s power sector using carbon-capture utilization and storage.” ***Nature Communications*** 14, 5972. <https://doi.org/10.1038/s41467-023-41548-4>
9. Yaxin Zhang, Yuli Shan, Xinzhu Zheng, Can Wang, Yuru Guan, Jin Yan, Franco Ruzzenenti, Klaus Hubacek (2023). “Energy price shocks induced by the Russia-Ukraine conflict jeopardize wellbeing.” ***Energy Policy***, Volume 182, 113743. <https://doi.org/10.1016/j.enpol.2023.113743>
10. Xu Zhao, Siyu Hou, Xinxin Zhang, Klaus Hubacek, Martin R. Tillotson, Yu Liu, and Junguo Liu (2023). Revealing Trade Potential for Reversing Regional Freshwater Boundary Exceedance. ***Environmental Science & Technology*** 57, 31, 11520–11530. <https://doi.org/10.1021/acs.est.3c01699>
11. Jing-Li Fan, Jingying Fu, Xian Zhang, Kai Li, Wenlong Zhou, Klaus Hubacek, Johannes Urpelainen, Shuo Shen, Shiyan Chang, Siyue Guo & Xi Lu (2023). Co-firing plants with retrofitted carbon capture and storage for power-sector emissions mitigation.” **Nature Climate Change** 13, 807–815. <https://doi.org/10.1038/s41558-023-01736-y>
12. Tiana, Peipei, Kuishuang Feng, Heran Zheng, Klaus Hubacek, Jiashuo Lia, Honglin Zhong, Xiangjie Chen, and Laixiang Sun (2023). “Implementation of carbon pricing in an aging world calls for targeted protection schemes,” ***PNAS Nexus***, Volume 2, Issue 7, <https://doi.org/10.1093/pnasnexus/pgad209>
13. Li, Y., Zhong, H., Shan, Y., Hang, Ye, Wang, Dan, Zhou, Yannan, Hubacek, Klaus (2023). “Changes in global food consumption increase GHG emissions despite efficiency gains along global supply chains.” ***Nature Food*** 4, 483–495. <https://doi.org/10.1038/s43016-023-00768-z>
14. Franco Ruzzenenti, Klaus Hubacek, Giampaolo Gabbi (2023). ”In the fight against climate change, did the financial sector cut secular ties with the oil industry or merely camouflage them?: ***Cleaner Production Letters*** Volume 4, June 2023, 100040. <https://doi.org/10.1016/j.clpl.2023.100040>
15. Li, Ruoqi; Liu, Miaomiao; Shan, Yuli; Shi, Yufan; Zheng, Heran; Zhang, Wei; Yang, Jianxun; Fang, Wen; Ma, Zongwei; Wang, Jinnan; Bi, Jun; Hubacek, Klaus\* (2023). "Large virtual transboundary hazardous waste flows: the case of China" ***Environmental Science & Technology*** es-2022-07962w.R4 https://doi.org/10.1021/acs.est.2c07962
16. Shaojian Wang, Jieyu Wang\*, Xiangjie Chen, Chuanglin Fang, Klaus Hubacek, Xiaoping Liu, Chunshan Zhou, Kuishuang Feng, and Zhu Liu (2023). “Impact of International Trade on the Carbon Intensity of Human Well-Being.” ***Environmental Science & Technology***. 57, 17, 6898-6909
17. Dingfan Zhang, Bin Chen, Klaus Hubacek, Jing Meng, Mingxing Sun, Jiafu Mao, Mingzhou Jin, Cecilia Maria Villas Bôas de Almeida, Anthony SF Chiu, Lan Yang, Linxiu Zhang, Chun Ding, Yutao Wang, (2023). “Potential impacts of Fukushima nuclear wastewater discharge on nutrient supply and greenhouse gas emissions of food systems.” ***Resources, Conservation and Recycling***, Volume 193, https://doi.org/10.1016/j.resconrec.2023.106985.
18. Guan, Y., Yan, J., Shan, Y. Guan, Y. Zhou, Y. Hang, R. Li, Y. Liu, B. Liu, Q. Nie, B. Bruckner, K. Feng, K. Hubacek\*. Burden of the global energy price crisis on households. ***Nature Energy*** 8, pages: 304–316. https://doi.org/10.1038/s41560-023-01209-8
19. Binyuan Liu, Yuru Guan, Yuli Shan, Can Cui, Klaus Hubacek, (2023). “Emission growth and drivers in Mainland Southeast Asian countries. ***Journal of Environmental Management***, Volume 329, https://doi.org/10.1016/j.jenvman.2022.117034.
20. Wang, K., Wang, Z., Xian, Y., Shi, X., Yu, J., Feng, K., Hubacek, K., Wei, Y.M., Optimizing the rolling out of China’s carbon market, ISCIENCE (2023) Volume 26, Issue 1,105823, doi: https://doi.org/10.1016/ j.isci.2022.105823.Guan, Y., Yan, J., Shan, Y. Guan, Y. Zhou, Y. Hang, R. Li, Y. Liu, B. Liu, Q. Nie, B. Bruckner, K. Feng, K. Hubacek\*. Burden of the global energy price crisis on households. ***Nature Energy*** (2023). <https://doi.org/10.1038/s41560-023-01209-8>
21. Binyuan Liu, Yuru Guan, Yuli Shan, Can Cui, Klaus Hubacek, (2023). “Emission growth and drivers in Mainland Southeast Asian countries. ***Journal of Environmental Management***, Volume 329, https://doi.org/10.1016/j.jenvman.2022.117034.
22. Wang, K., Wang, Z., Xian, Y., Shi, X., Yu, J., Feng, K., Hubacek, K., Wei, Y.M., Optimizing the rolling out of China’s carbon market, ***ISCIENCE*** (2023) Volume 26, Issue 1,105823, doi: https://doi.org/10.1016/ j.isci.2022.105823.
23. Bruckner Benedikt, Yuli Shan, Honglin Zhong, Kuishuang Feng, Christina Prell, Yannan Zhou, Klaus Hubacek\* (2023). Ecologically unequal exchanges driven by EU households. ***Nature Sustainability***
24. Kaihui Song, Giovanni Baiocchi, Kuishuang Feng, Klaus Hubacek, Laixiang Sun, Daoping Wang, Dabo Guan (2022). “Can U.S. multi-state climate mitigation agreements work? A perspective from embedded emission flows.” ***Global Environmental Change*** Volume 77, November 2022, 102596. https://doi.org/10.1016/j.gloenvcha.2022.102596
25. Kaihui Song, Giovanni Baiocchi, Kuishuang Feng, Klaus Hubacek, Laixiang Sun, (2022). “Unequal household carbon footprints in the peak-and-decline pattern of U.S. greenhouse gas emissions.” ***Journal of Cleaner Production***, Volume 368, 132650, <https://doi.org/10.1016/j.jclepro.2022.132650>
26. Lu Cheng, Zhifu Mi, Yi-Ming Wei, Shidong Wang, Klaus Hubacek, Dirty skies lower subjective well-being, ***Journal of Cleaner Production***, 2022, 134380, https://doi.org/10.1016/j.jclepro.2022.134380.
27. Lingna Liu, Yalin Lei, Brian D. Fath, Klaus Hubacek, Huajun Yao, Wei Liu, (2022). The spatio-temporal dynamics of urban resilience in China's capital cities, ***Journal of Cleaner Production***, 2022, 134400, https://doi.org/10.1016/j.jclepro.2022.134400.
28. Mingxi Du, Yu Liu, Qi Cui, Jintai Lin, Yawen Liu, Qiuyu Liu, Dan Tong, Kuishuang Feng, and Klaus Hubacek. "Contrasting suitability and ambition in regional carbon mitigation" by ***Nature Communications***. 13, 4077. https://doi.org/10.1038/s41467-022-31729-y
29. Jingwen Huo, Peipei Chen, Klaus Hubacek, Heran Zheng, Jing Meng, Dabo Guan (2022). Full-scale, near real-time multi-regional input–output table for the global emerging economies (EMERGING). ***Journal of Industrial Ecology***, 26, 1218– 1232. https://doi.org/10.1111/jiec.13264
30. Giovanni Baiocchi, Kuishuang Feng, Klaus Hubacek, Cole Walters. (2022). Carbon footprint of American lifestyles: A geodemographic segmentation approach.” ***Environmental Research Letters*** Volume 17, Number 6 https://doi.org/10.1088/1748-9326/ac6e76
31. Ibraheem M.P. Khan; Klaus Hubacek; Kaye L. Brubaker; Laixiang Sun; Glenn Moglen (2022). “Stormwater Management Adaptation Pathways Under Climate Change and Urbanization.” ***Journal of Sustainable Water in the Built Environment***. Vol. 8/4. doi: 10.1061/JSWBAY.0000992
32. Philip Joppen Mannattuparambil, Yuli Shan and Klaus Hubacek (2022). The impacts of the COVID-19 pandemic on surface passenger transport and related CO2 emissions during different waves" ***Environmental Research Communications***. 4 045010
33. Lin Lin, Kuishuang Feng, Zheng Wan, Peng Wang, Xianghui Kong, Ning Zhang, Klaus Hubacek, Jiashuo Li, 2022, Unexpected side effects of the EU Ship Recycling Regulation call for global cooperation on greening the shipbreaking industry.” ***Environmental Research Letters***. vol. 17, issue 4.
34. Danyang Cheng, Qianyu Xue, Klaus Hubacek, Jingli Fan, Yuli Shan, Ya Zhou, D' Maris Coffman, Shunsuke Managi, Xian Zhang (2022). “Inclusive wealth index measuring sustainable development potentials for Chinese cities.” ***Global Environmental Change***, Volume 72, 102417, https://doi.org/10.1016/j.gloenvcha.2021.102417.
35. Bruckner, B., K. Hubacek, S. Yuli, H. Zhong, K. Feng, (2022). „Impacts of poverty alleviation on national and global carbon emissions.” ***Nature Sustainability*** 2398-9629. https://doi.org/10.1038/s41893-021-00842-zHuo,
36. Guan, Y., Shan, Y., Huang, Q., Chen, H., Wang, D. & Hubacek, K., (2021). „Assessment to China's Recent Emission Pattern Shifts.“ ***Earth's Future***. 9, 11, e2021EF002241.
37. Jingxu, Wang, Jintai Lin\*, Kuishuang Feng, Yu Liu, Xiaomiao Jiao, Ruijing Ni, Mingxi Du, and Klaus Hubacek (2021). “Towards Reducing Inter-city Economic Inequality Embedded in China's Environmental Protection Tax Law.” ***Environmental Research Letters*** 16 124007. [IF=6.8].
38. Zhang, Yatao, Xia Li, Shaojian Wang, Yao Yao, Qingquan Li, Wei Tu, Hongfang Zhao, Hui Zhao, Kuishuang Feng, Laixiang Sun, Klaus Hubacek (2021). “A global North-South division line for portraying urban development.”. ***iScience***. Vol. 24/7, 102729. <https://doi.org/10.1016/j.isci.2021.102729>
39. Liu, Yawen, Qi Cui, Yu Liu, Jinzhu Zhang, Meifang Zhou, Tariq Ali, Lingyu Yang, Kuishuang Feng, Klaus Hubacek, Xinbei Li, (2021). “Countermeasures against Economic Crisis from COVID-19 Pandemic in China: An Analysis of Effectiveness and Trade-offs.” ***Structural Change and Economic Dynamics***, Vol. 59, Pages 482-495. <https://doi.org/10.1016/j.strueco.2021.09.017> [IF=3.6].
40. Rodrigues-Eklund Gabriela, Matthew C. Hansen, Alexandra Tyukavina, Stephen V. Stehman, Klaus Hubacek, Giovanni Baiocchi. (2021) “ Sample-based estimation of tree cover change in Haiti using aerial photography: substantial increase in tree cover between 2002 and 2010.” ***Forests***, 12(9), 1243; https://doi.org/10.3390/f12091243
41. Dorninger, Christian, Henrik von Wehrden, Fridolin Krausmann, Martin Bruckner, Kuishuang Feng, Klaus Hubacek, Karl-Heinz Erb, David J. Abson. (2021). “The effect of industrialization and globalization on domestic land-use: A global resource footprint perspective.” ***Global Environmental Change***, Volume 69, 102311, <https://doi.org/10.1016/j.gloenvcha.2021.102311>.
42. Hubacek K., X. Chen, K. Feng, T. Wiedmann, Y. Shan (2021). Evidence of decoupling consumption-based CO2 emissions from economic growth. ***Advances in Applied Energy***. Volume 4, 100074, <https://doi.org/10.1016/j.adapen.2021.100074>. [IF=9.7].
43. Li, R#, Y. Shan, J. Bi, M. Liu, Z. Ma, J. Wang and K. Hubacek (2021). “Balance between poverty alleviation and air pollutant reduction in China. ***Environmental Research Letters*** Volume 16, Number 9, 094019, [IF=6.8].
44. He, P.#, K. Feng, G. Baiocchi, L. Sun, K. Hubacek (2021). Shifts towards healthy diets in the US can reduce environmental impacts but would be unaffordable for poorer minorities. ***Nature Food***. 2, pages 664–672. https://doi.org/10.1038/s43016-021-00350-5.
45. Schulte-Fischedick, M.#, Y. Shan, K. Hubacek\* (2021). Implications of COVID-19 lockdowns on surface passenger mobility and related CO2 emission changes in Europe. ***Applied Energy*** 300, 117396. https://doi.org/10.1016/j.apenergy.2021.117396. [IF=9.7].
46. Wang, D., Hubacek, K.,\* Liang, X., Coffman, D’M. Hallegatte, S., Guan, D. (2021). Reply to: Observed impacts of the COVID-19 pandemic on global trade. ***Nature Human Behavior*** 5 (3): 308-309 . (IF=13.7).
47. Alcañiz I. and Hubacek K., (2021). Closing the Climate-Inequality Gap, ***Journal of Cleaner Production***, vol. 292, 126076. https://doi.org/10.1016/j.jclepro.2021.126076 (IF=9.3).
48. Shan, Y., S. Fang, B. Cai, Y. Zhou, D. Li, K. Feng, K. Hubacek\*, (2021), Chinese cities exhibit varying degrees of decoupling of economic growth and CO2 emissions between 2005 and 2015. ***One Earth***. vol. 4, issue 1, p. 124-134.
49. Shan, Y., J. Ou, D. Wang\*, Z. Zeng, S. Zhang, D. Guan\*, K. Hubacek\* (2021). Impacts of Covid-19 and fiscal stimuli on global emissions and the Paris Agreement. ***Nature Climate Change*** 11, 200-206. [IF=25].
50. William F. Lamb, Thomas Wiedmann, Julia Pongratz, Robbie Andrew, Monica Crippa, Jos G.J. Olivier, Dominik Wiedenhofer, Giulio Mattioli, Alaa Al Khourdajie, Jo House , Shonali Pachauri, Maria Figueroa, Yamina Saheb, Raphael Slade, Klaus Hubacek, Laixiang Sun, Suzana Kahn Ribeiro, Smail Khennas, Stephane de la Rue due le Can, Lazarus Chapungu, Steven J. Davis, Igor Bashmakov, Hancheng Dai, Shobhakar Dhakal, Xianchun Tan, Yong Geng, Baihe Gu, Jan Minx (2021). “A review of trends and drivers of greenhouse gas emissions by sector from 1990 to 2018.” ***Environmental Research Letters***. (IF=6.2)
51. Mingxing Sun, Guangwu Chen, Xiangbo Xu\*, Linxiu Zhang, Klaus Hubacek, and Yutao Wang. “Reducing Carbon Footprint Inequality of Household Consumption in Rural Areas. ***Environmental Science & Technology***. Vol. 55/17, pages: 11511–11520. <https://doi.org/10.1021/acs.est.1c01374>
52. Dandan Zhao, Junguo Liu, Laixiang Sun, Bin Ye, Klaus Hubacek, Kuishuang Feng, Olli Varis (2021). „Quantifying economic-social-environmental trade-offs and synergies of water-supply constraints: An application to the capital region of China.“ ***Water Research*** (IF=9.1).
53. Vaca-Jiménez, S., Gerbens-Leenes, P.W., Nonhebel, S., Hubacek, K. (2021). Unreflective use of old data sources produced echo-chambers in the water electricity nexus. ***Nature Sustainability*** 4, 537–546. [IF=19.3].doi.org/10.1038/s41893-021-00686-7
54. Christian Dorninger, Alf Hornborg, David J. Abson, Henrik von Wehrden, Anke Schaffartzik, Stefan Giljum, John Oliver Engler, Robert L. Feller, Klaus Hubacek, Hanspeter Wieland, (2021). „Global patterns of ecologically unequal exchange: Implications for sustainability in the 21st century. ***Ecological Economics***. vol. 179.
55. Wang, D.; Hubacek, K\*.; Shan, Y.; Gerbens-Leenes, W.; Liu, J. (2021). “A Review of Water Stress and Water Footprint Accounting.” ***Water*** 13, https://doi.org/10.3390/w13020201
56. Feng, Kuishuang, Klaus Hubacek, Kaihui Song (2021). “Household carbon inequality in the U.S. “ ***Journal of Cleaner Production***. (IF=9.3)
57. Zhong, Honglin, Kuishuang Feng, Laixiang Sun, Li Cheng, Klaus Hubacek (2020). “Household carbon and energy inequality in Latin American and Caribbean countries.” ***Journal of Environmental Management***. Vol. 273/1.
58. Xu Peng, Xiaoma Tao, Kuishuang Feng\*, and Klaus Hubacek\* (2020). “Drivers toward a Low-Carbon Electricity System in China’s Provinces.” ***Environmental Science & Technology***, Vol. 54, 9, pages: 5774–5782 https://doi.org/10.1021/acs.est.0c00536
59. Brizga, Janis, Klaus Hubacek, Kuishuang Feng (2020). "The Unintended Side Effects of Bioplastics: Carbon, Land, and Water Footprints.” ***One Earth***. Vol. 3/1, pages: 45-53. DOI:https://doi.org/10.1016/j.oneear.2020.06.016
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61. Dabo Guan, Daoping Wang, Stephane Hallegatte, Jingwen Huo, Shuping Li, Yangchun Bai, Tianyang Lei, Qianyu Xue, Danyang Cheng, Peipei Chen, D’Maris Coffman, Xi Liang, Shouyang Wang, Peng Gong. (2020). Economic footprint of global supply chains in COVID-19 outbreak.” ***Nature Human Behavior***.4, pages577–587.
62. Xing Z, Wang J, Feng K, Hubacek K, (2020). “Decomposition and attribution analysis for assessing the progress in decoupling industrial development from wastewater discharges in China.” ***Journal of Cleaner Production***. (IF=9.3) https://doi.org/10.1016/j.jclepro.2020.121789.
63. Cai, Beiming; Hubacek, Klaus; Feng, Kuishuang; Zhang, Wei; Wang, Feng; Liu, Yu (In Press). “Tension of agricultural land and water use in China’s trade: Tele-connections, hidden drivers and potential solutions". ***Environmental Science & Technology***
64. Xing, Zhencheng, Jigan Wang, Kuishuang Feng,\* , Klaus Hubacek (In Press). “Decline of SO 2 emission intensity in China’s thermal power generation: Decomposition and attribution analysis.” ***Science of the Total Environment***.
65. Mi, Zhifu, Jiali Zheng, Jing Meng, Jiamin Ou, Klaus Hubacek, Zhu Liu, D'Maris Coffman, Nicholas Stern, Sai Liang, Yi-Ming Wei (In Press). “Economic development and converging household carbon footprints in China.” ***Nature Sustainability***.
66. Shan, Y.\*, Qi Huang, Dabo Guan, & Klaus Hubacek\*. (In Press). “China CO2 emission accounts 2016-2017.” ***Scientific Data***. [IF=5.929].
67. Shaoqing Chen\*, Huihui Long, Bin Chen, Kuishuang Feng, Klaus Hubacek\* (2020). “Urban carbon footprints across scale: Important considerations for choosing system boundaries.” ***Applied Energy***. Vol. 259, 1 February 2020, 114201. [IF=9.7].
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69. Shaoqing Chen, Bin Chen, Kuishuang Feng, Zhu Liu, Neil Fromer, Xianchun Tan, Ahmed Alsaedi, Tasawar Hayat, Helga Weisz, Hans Joachim Schellnhuber & Klaus Hubacek (in Press). “Physical and virtual carbon metabolism of global cities”. ***Nature Communications***. [IF=11.9]
70. Jintai Lin\*, Mingxi Du, Lulu Chen, Kuishuang Feng, Yu Liu\*, Randall Martin, Jingxu Wang, Ruijing Ni, Yu Zhao, Hao Kong, Hongjian Weng, Mengyao Liu, Aaron van Donkelaar, Qiuyu Liu & Klaus Hubacek. (2019). “Carbon and health implications of trade restrictions.” ***Nature Communications***. [IF=11.9]
71. Vogt-Schilb, Adrien, Brian Walsh, Kuishuang Feng, Laura Di Capua, Yu Liu, Daniela Zuluaga, Marcos Robles, and Klaus Hubacek. (2019). “Making carbon taxes pro-poor using cash transfers in Latin America and the Caribbean.” ***Nature Sustainability***. Volume 2, pages 941–948.
72. Jingxu Wang, Jintai Lin,\*, Kuishuang Feng,\*, Peng Liu, Mingxi Du, Ruijing Ni, Lulu Chena, Hao Kong, Hongjian Weng, Mengyao Liu, Giovanni Baiocchi, Yu Zhao, Zhifu Mi, Jing Cao，Klaus Hubacek\*. (forthcoming). “Environmental Taxation and Regional Inequality in China.” ***Science Bulletin***
73. Wei Zhang, Miaomiao Liu,⁎ Klaus Hubacek, Kuishuang Feng, Wenjun Wu, Yu Liu, Hongqiang Jiang, Jun Bi, Jinnan Wang (2019). “Virtual flows of aquatic heavy metal emissions and associated risk in China.” ***Journal of Environmental Management***. Volume 249, Pages
74. Lu, Yalin, Yuan Wang, Wei Zhang, Klaus Hubacekd, Fenfen Bi, Jian Zuo,Hongqiang Jiang, Zengkai Zhang, Kuishuang Feng, Yu Liu, Wenbo Xue. 2019. “Provincial air pollution responsibility and environmental tax of China based on interregional linkage indicators.” ***Journal of Cleaner Production***. Vol. 235. Pages: 337-347. (IF=9.3)
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## Viewpoint Articles, non-peer reviewed articles, and Notes.

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### Edited books and special issues

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## Contracts and Grants

2024 EU Horizon-China MOST: **Pathways towards Carbon Neutrality for Climate, Environment, Health and Socio-Economic Co-Benefits**. (PHANTEON). Coordinator, PI; total 4m/RUG share about 800k; Award period: 01/03/2024-28/02/2028.

2023 H2020 European Research Area Network (ERA-NET) Sino-European call: **Improved urban mobility toward climate neutrality under new working habits and transport modes**. (coordinator, PI: Total Funding €800,000/RUGshare €350,000. Award period: 01/05/2023-30/04/2026

2023 HORIZON-WIDERA-2022: **PHAETHON Research and Innovation Centre of Excellence for Intelligent, Efficient and Sustainable Energy Solutions**. Co-PI: €15,000,000 + 30,000000 co-funding. Award Period: 1/09/2023-30/08/2029.

2021 Greenpeace Germany: **Assessing the spillover effects of the EU’s Green Deal**. PI: €100,000.

2017-2019 National Atmospheric and Oceanic Administration (NOAA): **Linking Rural Decision-Makers with Local Churches to Build Coastal Resilience to a Changing Climate**. NOAA, Coastal and Ocean Climate Adaptations. Award number NA17OAR4310248. Co-PI. Total Funding: $300,000. Award period: 09/01/2017-08/31/2019.

2017-2020 NASA: **Integrating remote sensing observations with NASA’s GEOS-5 modeling framework in support of retrospective analyses and seasonal prediction of biosphere-atmosphere CO2 flux**. Co-investigator. Award period: 08/02/2017-08/01/2020. Total Funding: 599,924

2017-2020 NASA: **Agricultural Land Use Change in Central and Northeast Thailand: Effects on Biomass Emissions, Soil Quality and Rural Livelihoods**. Co-investigator. Total Funding: $675,000.

2017-2021 Department for International Development (DFID, UK): **Modeling Early Risk Indicators to Identify Malnutrition (MERIAM)**. (co-PI): $4,000,000.

2017-2020 NASA: **Understanding Large-Scale Land Acquisitions and their Land Change Dimensions: Socio-Environmental Synthesis of the Global ‘Rush’ for Land**. Program: NASA Roses. (co-PI): $747,414.

2017-2018 Inter-American Development Bank: **“Climate risk: managing distributional impacts of carbon taxes”** (co-PI: $ 60,000)

2016-2018 Czech Science Foundation: Vulnerability and Energy-Economy Nexus at the Sector Level: A Historic, Input-Output and CGE Analysis (GA ČR no. 16-17978S). Co-investigator.

2016 Inter-American Development Bank: “**Distributive lmpacts of Energy Subsidies** - ATN/OC'13977-RG (RG'T2119) (PI: $ 40,000).

2016-2020 EU-Horizon2020, “**Guiding European Policy toward a low-carbon economy. Modelling Energy System Development under Environmental and Socioeconomic constraints**”. (co-PI). H2020-LCE-2015-2/691287. $4,330,000.

2016-2018 Maryland Sea grant Program: **Integrated Geospatial, Cultural, and Social Assessment of Coastal Resilience to Climate Change**. (co-PI). $210.000.

2015 “**Tracing China’s CO2 Emissions in Global Value Chains: Regional and Firm Heterogeneity**” in collaboration with Nagoya University, Tsinghua University and Fudan University. (co-investigator).

2015 University of Maryland, Dean’s Research Initiative. “**Understanding large-scale land acquisitions and their land change dimensions: socio-environmental synthesis of the global 'rush' for land**.” (co-PI: $5,000).

2015 University of Maryland, Dean’s Research Initiative. “**Climate resilient communities in Alaska and Canada**.” (co-PI: $5,000).

2015 University of Maryland, Dean’s Research Initiative. “**Oil Price Variation, Economic Vulnerability, and Social Unrest**.” (PI: $10,000).

2014 NSF National Socio-Environmental Synthesis Center. “**Linking local consumption to global environmental impacts**.” (PI: $40,000).

2014 University of Maryland’s Dean Research Initiative: “**Integrating Cultural Knowledge, Social Networks, Livelihood Strategies and Environmental Science to Foster Coastal Resilience to Climate Change at Multiple Scales**” (co-PI: $25,000).

2014 University of Maryland’s Council of the Environment: “**Studying the future of the Chesapeake Bay Watershed Region by Coupling Socio-Economic and Earth-System Models**“ (PI: $90,000).

2013 The World Bank: “**Analysis of spatial growth patterns across South Asia**.” (co-PI: 14,000$).

2012-2017 National Science Foundation, NSF-RCN: “**Social Observatories Research Network**.” NSF SES1237498 (co-investigator: $278,299).

2012 The World Bank: “**A spatial mapping system for human water security.**” (co-PI: $ 7,500/75,000).

2011 University of Maryland Dean’s Research Initiative: “**Modeling Human Dimensions of Global change**.” (PI; $ 115,000).

2010 IUCN (Commission of Inquiry into Peatlands). **Technical Review: Policy measures for sustainable management of UK peatlands**

2009-2010 Economic and Social Research Council, UK and Indian Social Science Research Council (ESRC-ICSSR). “**Developing a Measure for Inequitable Household Access to Water in Urban India**.” (with The Energy Research Institute, TERI, Delhi, India) (covers travel and living expenses).

2009-2010 Economic and Social Research Council, UK (ESRC). “**Sustainable Uplands: Learning to manage future change**.” (co-investigator/all at Leeds £ 99,717).

2010-2011 Natural Environment Research Council, UK (NERC) and Mobil. “**EnergyScapes and Ecosystem Services**.” (co-investigator: Leeds share: 100k/total £ 350,000/).

2009 International Water Management Institute (IWMI)/CGIAR: “**Analytical Framework for Water Accounting and Livelihoods**.” Scoping Study. (PI: $ 4,000 + travel and other expenses).

2009 WWF World Wide Fund for Nature – UK: “**Distributional Effects of Climate Change Taxation: The case of the UK**”. (Principal Investigator: £ 15,000).

2007-2010 White Rose PhD scholarships: “**Impact of large scale management change on upland ecosystems**.” Three White Rose PhD studentships. (co-investigator: Leeds share: £ 68k/Total: £ 175k).

* 1. Framework 6 Integrated Project: “**Desertification Mitigation & Remediation of Land**” Funded under Activity Area SUSTDEV-2005 "Combat land degradation and desertification". (co-investigator: Leeds share Euro 300k/total Euro 7 million).

2006-2010 Marie Curie Actions (RTNs) “**Multi-level Governance of Natural Resources: Tools and Processes for Water and Biodiversity Governance in Europe**”. (co-investigator: Euro 388,000 Leeds share)/Total: Euro 2,200,000).

2006-2008 Yorkshire Water: **Stakeholder involvement, upland management and water quality**. (principal-investigator: £ 99,800).

2006 DEFRA (UK Department for the Environment, Food and Rural Affairs): “**Sustainable Consumption and Production: Development of an Evidence Base**”. (co-investigator: ~£ 5,000 Leeds share).

2006 DEFRA (UK Department for the Environment, Food and Rural Affairs): “**Vulnerability of organic soils**”. (co-investigator: ~£ 25,000).

2005 Arup and Stockholm Environment Institute: “**Ecological Footprint of Dongtan, China**” (co-investigator: ~£ 5,000 Leeds share).

2005 China Council for International Cooperation on Environment and Development (CCICED): “**Sustainable Urbanisation in China – Resources and Environment Component**” (co-investigator: ~£ 5,000 Leeds share).

2005-2009 ESRC, NERC, BBSRC, Scottish Executive Environment and Rural Affairs Department, and the Department for Environment Food and Rural Affairs (DEFRA). Rural Economy and Land Use Programme (RELU). “**Managing Uncertainty in Dynamic Socio-Environmental Systems: An Application to UK Uplands**”. (Principal Investigator: Leeds share ~ £ 500,000/total: £ 750,000).

2005 ESRC, NERC, BBSRC, Scottish Executive Environment and Rural Affairs Department, and the Department for Environment Food and Rural Affairs (DEFRA). Scoping Study under the Rural Economy and Land Use Programme (RELU). “**Sustainable Upland Management for Multiple Benefits**”. Ref No: RES-224-25-0088. (Principal Investigator: £ 50,000 + £ 68,000 in-kind contributions from Moors for the Future).

2005 ESRC, NERC, BBSRC, Scottish Executive Environment and Rural Affairs Department, and the Department for Environment Food and Rural Affairs (DEFRA). Scoping Study under the Rural Economy and Land Use Programme (RELU). “**Achieving sustainable catchment management: developing integrated approaches and tools to inform future policies**”. (Co-investigator: network grant £ 50,000).

2004 Society for Non-Traditional Technology (SNTT), Japan. **Funding for International Conference on Sustainable Consumption** in Cooperation with the United Nations Environment Programme (UNEP), Heterodox Economics Network for the Environment and European Society for Ecological Economics. (Organizer and scientific chair): ~£ 15,000.

2004 – 2005 Society for Non-Traditional Technology (SNTT) and the National Institute for Applied Industrial Science and Technology (AIST), Japan. “**Lifecycle approaches to sustainable consumption**”. (Co-investigator): ~£ 22,000.

2003 – 2006 European Commission’s 5th Framework Program: “**MOdelling opportunities and limits for restructuring Europe towards SUStainability (MOSUS)”**. (~$ 10,000).

2003 – 2004 Jubileumsfonds der Oesterreichischen Nationalbank, Vienna, Austria: “**The Environmental Impacts of Consumption**”. (Co-investigator): ~ £ 53,000/Leeds share ~£ 10,000.

2002-2005 EUROSTAT: **Economy-wide national material flow accounts and indicators of resource use for the EU**. Research grant in collaboration with the Institute for Interdisciplinary Studies of the Austrian Universities-Department of Social Ecology, Vienna Austria.

1995 – 1996 Austrian Federal Environmental Agency and UNESCO: **Economic Incentives and Social Discourse Processes for the Establishment of the Transboundary National Park at Lake Neusiedl**, (Principal Investigator: 10000 $).

1995 Österreichischer Akademikerdienst: **Diffusion of Alternative Energy Technologies** in Bulgaria, joint-seminar with the University of World Economy, Sofia, Bulgaria, (Principal Investigator: travel costs for participants).

1992 – 1994 Austrian Ministry of Science and Research and the European Commission: **Pathways from Small Scale Applications to Sustainable Regional Development** (EXPRESS-PATH), (Co-investigator: 99,900 $).

## Fellowships, Prizes, and other recognition.

Fellow of the Academy of Social Sciences in the UK since 2022.

Ranked as ranked #45 in the world and #4 in Netherlands in the in the 2022 Edition of Research.com’s Top 1000 Scientists in the area of Social Sciences and Humanities based on a scientist's D-index (Discipline H-index).

Best environmental policy paper award of *Environmental Science and Technology (ES&T)* 2018 – ‘(co-authored with Wei Zhang, Yu Liu, Kuishuang Feng, Jinnan Wang, Miaomiao Liu, Ling Jiang, Hongqiang Jiang, Nianlei Liu, Pengyan Zhang, Ying Zhou, and Jun Bi).

Recognized as Global Highly Cited Researcher 2018, 2019, 2020, 2021. List of Influential Scientific Researchers with multiple papers ranking in the top 1% by citations for their field and year published by Clarivate Analytics.

Award from UK research council voted the Sustainable Uplands project as “best example of impact” at the Rural Economy and Land Use program’s final conference –two projects receiving award out of over 100 projects.

Best environmental policy paper award of *Environmental Science and Technology (ES&T)* – ‘(co-authored with Peters, Weber and Guan) (2007).

Runner-up for Leontief award (co-authored with Dabo Guan) at the international Input-output conference in Istanbul, 2007.

Austrian Academy of Sciences: Young Scientists Summer Program at the International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria (June - August, 1999).

Austrian Ministry of Science and Research and Fulbright Commission: Two-year scholarship for PhD studies at Rensselaer Polytechnic Institute, Troy, NY (1996 - 1998).

US-IA Fulbright faculty-exchange program: Visiting Scholar at the University of World Economics in Sofia, Bulgaria and the University of North Carolina in Chapel Hill (January-February 1993, August-September 1994).

Austrian Ministry of Science and Research: Visiting Scholar at the Institute for Geography at the University of Copenhagen (July - September 1992).

Member of the Austrian delegation at the United Nations Conference on Environment and Development (UNCED 1992); Rio de Janeiro, Brazil (June 1992).

## Editorships, Editorial Boards, and Reviewing Activities for Journals and Other Learned Publications.

### Editorial Board

* Honorary board member of Journal of Cleaner Production. Since 2020. Elsevier.
* Associate Editor of Cleaner Production Letters (since 2020), Elsevier.
* Editorial Board member of Socio-Ecological Practice Research (SEPR), Nature-Springer ISSN: 2524-5279. Since 2018.
* Founding Associate Editor of Energy, Ecology and Environment (E3), Nature-Springer.
* Associate Editor for Industrial Ecology. (Wiley, ISSN: 1530-9290). Since 2016.
* Editorial Board member for Applied Energy (Elsevier, ISSN: 0306-2619)
* Editorial Board member for the Journal of Economic Analysis
* Sustainability: Science, Practice and Policy. Taylor & Francis. Since 2017.
* Editorial Board member for Environments (MDPI, ISSN 2076-3298); 2013-2016
* Editorial Board member for Journal of Economic Structures (ISSN: 2193-2409, Springer)

 **Previous appointments**

* Editorial Board member for Regional Environmental Change (until 2016), (ISSN: 1436-3798, Springer)
* Editorial Board member for Water (MDPI, ISSN 2073-4441); 2013-2016.

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# Other Service

##### Offices and committee memberships held in professional organizations

Council member - International Input-Output Association (IIOA) 2004-2019.

Board member of the Industrial Ecology (Section on Environmentally Extended Input Output Analysis) 2010-2013.

##### Organization of Scientific Conferences

Member of the scientific organizing committee of the International Input-Output Conference (since 2006)

Member of the scientific advisory board for the International Conferences on Eco-balance (since 2004) Tsukuba, Japan.

Scientific chair of the 19. International Input-output conference, Alexandria, VA, 2011.

Scientific co-chair of the 18. International Input-output conference, Sydney, 2010.

Scientific chair of the 16th International Input-output conference, Istanbul, 2007.

Organizer and scientific chair of the international conference in Leeds, 2004 on “Driving Forces for and Barriers to Sustainable Consumption”, under the auspices United Nations Development Program (UNDP) and the National Institute of Advanced Science and Technology (AIST), Japan.

##### Reviewing and assessment panel activities for funding agencies

##### Austrian Academy of Sciences

##### Austrian Climate and Energy Fund

##### Belgian Science Foundation (FNRS)

##### British Royal Society

##### European Research Council (ERC)

##### Finnish Academy of Sciences

##### German Federal Ministry of Education and Research (BMBF)

##### German Academic Exchange Service (DAAD)

##### Israel Science Foundation

##### Leverhulme Thrust, UK

##### Research Council of Norway

##### Research Grant Council (RGC) of Hong Kong

##### South Asian Network for Development and Environmental Economics (SANDEE), Katmandu, Nepal.

##### Swiss National Science Foundation

##### The OeNB Anniversary Fund [Austrian National Bank], Vienna, Austria.

##### UK Department for the Environment, Food and Rural Affairs (DEFRA), London, UK.

##### UK Department for International Development (DFID), London, UK.

##### UK Economic and Social Research Council (ESRC), Swindon, UK.

UK Engineering and Physical Sciences Research Council, UK.

UK Natural Environment Research Council (NERC), UK

##### The World Bank