



**Literature for MESS25, Environmental Studies and
Sustainability Science: Methods and Tools - from Knowledge
to Action applies from spring semester 2023**

Literature established by The Board of the Lund University Centre for
Sustainability Studies on 2022-12-15 to apply from 2023-01-16

See appendix.



LUND
UNIVERSITY

Lund University Centre for
Sustainability Studies

MESS25 LITERATURE LIST

2022-12-15

Dnr STYR 2022/2763

Miljö- och hållbarhetsvetenskap: Metoder och verktyg – från kunskap till handling, 7,5 högskolepoäng

*Environmental Studies and Sustainability Science: Methods and Tools –
from Knowledge to Action, 7.5 credits*

MESS25 litteraturlista fastställd av LUCSUS styrelse den 15 december
2022.

Bergmann, M., N. Schöpke, N., O. Marg, F.O., Stelzer, D.J.F., Lang, M.D.
J., Bossert, M., Gantert, E.M., Häußler, E., et al. (2021). Transdisciplinary
sustainability research in real-world labs: success factors and methods for
change. *Sustainability Science* 16(2): 541–564.

<https://doi.org/10.1007/s11625-020-00886-8> (24 pages)

Buhl, A., Schmidt-Keilich, M., Muster, V., Blazejewski, S., Schrader, U.,
Harrach, C., Schäfer, M., & Süßbauer, E. (2019). Design thinking for
sustainability: Why and how design thinking can foster sustainability-
oriented innovation development. *Journal of Cleaner Production*, 231,
1248–1257. <https://doi.org/10.1016/j.jclepro.2019.05.259> (10 pages)

Caniglia, G., Luederitz, C., von Wirth, T., Fazey, I., Martín-López, B.,
Hondrila, K., König, A., von Wehrden, H., Schöpke, N. A., Laubichler, M.
D., & Lang, D. J. (2020). A pluralistic and integrated approach to action-
oriented knowledge for sustainability. *Nature Sustainability*, 4

<https://doi.org/10.1038/s41893-020-00616-z> (8 pages)

Caniglia, G., Schöpke, N., Lang, D. J., Abson, D. J., Luederitz, C., Wiek,
A., Laubichler, M. D., Gralla, F., & von Wehrden, H. (2017). Experiments
and evidence in sustainability science: A typology. *Journal of Cleaner
Production*, 169, 39–47. <https://doi.org/10.1016/j.jclepro.2017.05.164> (9
pages)

Chambers, J., M., Wyborn, C., Klenk, N.L., Ryan, M., Serban, A., Bennett,
N.J., Brennan, R., et al. (2022). Co-Productive Agility and Four
Collaborative Pathways to Sustainability Transformations. *Global*

Environmental Change 72 102422.

<https://doi.org/10.1016/j.gloenvcha.2021.102422> (17 pages)

D-school (2010). An Introduction to Design Thinking: Process Guide. Stanford University.

<http://web.stanford.edu/~mshanks/MichaelShanks/files/509554.pdf> (6 pages)

de Vos, A., Preiser, R. & Masterson V.A. (2021) Participatory data collection. In: The Routledge Handbook of Research Methods for Social-Ecological Systems 1st Edition. Imprint Routledge

<https://www.taylorfrancis.com/chapters/oa-edit/10.4324/9781003021339-10/participatory-data-collection-alta-de-vos-rika-preiser-vanessa-masterson?context=ubx&refId=25ca3e2b-e5e9-4382-89f6-12f42d52f437> (16 pages)

Fazey, I., Schöpke, N., Caniglia, G., Patterson, J., Hultman, J., van Mierlo, B., Säwe, F., Wiek, A., Wittmayer, J., Aldunce, P., Al Waer, H., Battacharya, N., Bradbury, H., Carmen, E., Colvin, J., Cvitanovic, C., D'Souza, M., Gopel, M. et al. (2018). Ten essentials for action-oriented and second order energy transitions, transformations and climate change research. *Energy Research & Social Science*, 40, 54–70.

<https://doi.org/10.1016/j.erss.2017.11.026> (17 pages)

Gardiner, P. (2020). Learning to Think Together: Creativity, Interdisciplinary Collaboration and Epistemic Control. *Thinking Skills and Creativity* 38, 100749. <https://doi.org/10.1016/j.tsc.2020.100749> (10 pages)

Greenaway, A., Hohaia, H., Le Heron, E. et al. 2022. Methodological sensitivities for co-producing knowledge through enduring trustful partnerships. *Sustainability Science* 17, 433–447.

<https://doi.org/10.1007/s11625-021-01058-y> (15 pages)

Haider, L.J., Hentati-Sundberg, J., Giusti, M. Goodness, J. et al. (2018). The undisciplinary journey: early-career perspectives in sustainability science. *Sustainability Science* 13, 191–204. <https://doi.org/10.1007/s11625-017-0445-1> (13 pages)

Harris, F., & Lyon, F. (2013). Transdisciplinary environmental research: Building trust across professional cultures. *Environmental Science & Policy*, 31, 109–119. <https://doi.org/10.1016/j.envsci.2013.02.006> (11 pages)

Harris, F., & Lyon, F. (2013). Transdisciplinary environmental research: Building trust across professional cultures. *Environmental Science & Policy*, 31, 109–119. <https://doi.org/10.1016/j.envsci.2013.02.006> (11 pages)

Hoolohan, C., & Browne, A. L. (2020). Design thinking for practice-based intervention: Co-producing the change points toolkit to unlock (un)sustainable practices. *Design Studies*, 67, 102–132.

<https://doi.org/10.1016/j.destud.2019.12.002> (10 pages)

Horcea-Milcu, A.-I., Abson, D. J., Apetrei, C. I., Duse, I. A., Freeth, R., Riechers, M., Lam, D. P. M., Dorninger, C., & Lang, D. J. (2019). Values in transformational sustainability science: four perspectives for change. *Sustainability Science*, 14(5), 1425–1437. <https://doi.org/10.1007/s11625-019-00656-1> (13 pages)

<https://doi.org/10.1007/s11625-019-00656-1> (13 pages)

- Lam, D. P. M., Martín-López, B., Wiek, A., Bennett, E. M., Frantzeskaki, N., Horcea-Milcu, A. I., & Lang, D. J. (2020). Scaling the impact of sustainability initiatives: a typology of amplification processes. *Urban Transformations*, 2(1). <https://doi.org/10.1186/s42854-020-00007-9> (24 pages)
- Mahajan, S. L., Glew, L., Ryan, M. et al. (2022). *The Craft of Systems Change: Practical tools for a complex world*. 1st ed. World Wildlife Fund. <https://www.worldwildlife.org/projects/the-art-and-craft-of-systems-change> (244 pages)
- Marshall, J., Coleman, G., & Reason, P. (2011). *Leadership for Sustainability: An Action Research Approach* (1st ed.). Routledge. <https://doi.org.ludwig.lub.lu.se/10.4324/9781351278287> (262 pages)
- Martiskainen, M. (2017). The role of community leadership in the development of grassroots innovations. *Environmental Innovation and Societal Transitions*, 22, 78–89. <https://doi.org/10.1016/j.eist.2016.05.002> (12 pages)
- Masterson, V. A., Stedman, R. C., Enqvist, J., Tengö, M., Giusti, M., Wahl, D., & Svedin, U. (2017). The contribution of sense of place to social-ecological systems research: a review and research agenda. *Ecology and Society*, 22(1). <https://doi.org/10.5751/es-08872-220149> (14 pages)
- Montana, J. (2019). Co-production in action: perceiving power in the organisational dimensions of a global biodiversity expert process. *Sustainability Science*, 14(6), 1581–1591. <https://doi.org/10.1007/s11625-019-00669-w> (11 pages)
- Ness, B., Wahl, D. (2022). Getting personal with collaborative sustainability experimentation: Reflections and recommendations from a transdisciplinary partnership with the Swedish craft beer sector. *Ambio*. <https://doi.org/10.1007/s13280-022-01751-x> (13 pages)
- Norström, A. V., Cvitanovic, C., Löf, M. F., West, S., Wyborn, C., Balvanera, P., Bednarek, A. T., Bennett, E. M., Biggs, R. et al. (2020). Principles for knowledge co-production in sustainability research. *Nature Sustainability*, 3(3), 182–190. <https://doi.org/10.1038/s41893-019-0448-2> (19 pages)
- O'Brien, K. (2018). Is the 1.5°C target possible? Exploring the three spheres of transformation. *Current Opinion in Environmental Sustainability*, 31, 153-160. <https://doi.org/10.1016/j.cosust.2018.04.010> (8 pages)
- Phills, J. Jr., Deiglmeier, K. & Miller, D. T. (2008). Rediscovering Social Innovation. *Stanford Social Innovation Review*, 6(4), 34-43 https://ssir.org/articles/entry/rediscovering_social_innovation# (10 pages)
- Trott, C. D., Even, T. L., & Frame, S. M. (2020). Merging the arts and sciences for collaborative sustainability action: a methodological

framework. *Sustainability Science*, 15(4), 1067–1085.
<https://doi.org/10.1007/s11625-020-00798-7> (18 pages)

Wang, J., Aenis, T., & Siew, T. F. (2019). Communication processes in intercultural transdisciplinary research: framework from a group perspective. *Sustainability Science*, 14(6), 1673–1684.
<https://doi.org/10.1007/s11625-019-00661-4> (12 pages)

Wittmayer, J. M., & Schöpke, N. (2014). Action, research and participation: roles of researchers in sustainability transitions. *Sustainability Science*, 9(4), 483–496. <https://doi.org/10.1007/s11625-014-0258-4> (14 pages)

West, S., van Kerkhoff, L., & Wagenaar, H. (2019). Beyond “linking knowledge and action”: towards a practice-based approach to transdisciplinary sustainability interventions. *Policy Studies*, 40(5), 534–555. <https://doi.org/10.1080/01442872.2019.1618810> (12 pages)

Total number of pages

851

Author gender balance

The authors perceived as self-identifying as female are denoted in blue.