



Literature for MESS18, Sustainability Science applies from the autumn semester 2025

**Literature established by The Board of the Lund University Centre for
Sustainability Studies on 2025-06-04 to apply from 2025-06-04**

See appendix.



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MESS18 LITERATURE LIST

2025-06-04

Dnr STYR 2025/1462

Hållbarhetsvetenskap, 7,5 högskolepoäng

Sustainability Science, 7.5 credits

MESS18 litteraturlista fastställd av LUCSUS styrelse den 4 juni 2025.

Biggs, R., Clements, H., de Vos, A., Folke, C., Manyani, A., Maciejewski, K., Martín-López, B., Preiser, R., Selomane, O. & Schlüter M. (2021). What are social-ecological systems and social-ecological systems research? *The Routledge Handbook of Research Methods for Social-Ecological Systems*. (3-26). Routledge. (24)

Burkhard, B. & Müller, F. (2008). Encyclopedia of Ecology Ecological Indicators: Driver–Pressure–State–Impact–Response, *Elsevier*. 2, 967-970. (4)

Caniglia, G., Freeth, R., Luederitz, C., J. Leventon, West, S.P., John, B., D. Peukert, Lang, D.J., von Wehrden, H., Martín-López, B., Fazey, I., Russo, F., von Wirth, T., Schlüter M., & Vogel, C. (2023). Practical wisdom and virtue ethics for knowledge co-production in sustainability science. *Nat Sustain.* <https://doi.org/10.1038/s41893-022-01040-1> (9)

Caniglia, G., & Vogel, C. (2023). On being oriented: Strengthening transgressive orientations in transdisciplinary sustainability research through queer theory. *GAIA*. 167-171. (5)

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Cash, D.W., Adger, W.F., Berkes, F., Garden, P., Lebel, L., Olsson, P., Pritchard, L. & Young, O. (2006). Scale and cross-scale dynamics: governance and information in a multilevel world. *Ecology and Society*, 11(2), 8. <http://www.ecologyandsociety.org/vol11/iss2/art8/> (8)

Chilisa, B. (2017). Decolonising transdisciplinary research approaches: an African perspective for enhancing knowledge integration in sustainability science. *Sustain Sci* 12, 813–827. <https://doi.org/10.1007/s11625-017-0461-1> (15)

Fazey, I., Schöpke, N., Caniglia, G. *et al.* (180 additional authors) (2020). Transforming knowledge systems for life on Earth: Visions of future systems and how to get there. *Energy Research and Social Science*, 70(01724), 1-18. <https://doi.org/10.1016/j.erss.2020.101724> (18)

Garmestani, A., Allen, C.R., Angeler, D.G., Gunderson, L. Ruhl, J.B. (2023). Multiscale adaptive management of social–ecological systems. *BioScience*, 73, 11, November 2023, 800–807, <https://doi.org/10.1093/biosci/biad096> (8)

Geels, F.W. (2019). Socio-technical transitions to sustainability: a review of criticisms and elaborations of the Multi-Level Perspective. *Current Opinion in Environmental Sustainability*, 39, 187–201. <https://doi.org/10.1016/j.cosust.2019.06.009> (14)

Gibson, C.C., Ostrom, E. & Ahn, T.K. (2000). The concept of scale and the human dimensions of global change: a survey. *Ecological Economics*, 32, 217–239. [https://doi.org/10.1016/S0921-8009\(99\)00092-0](https://doi.org/10.1016/S0921-8009(99)00092-0) (22)

Jerneck, A., Olsson, L., Ness, B., Anderberg, S., Baier, M., Clark, E., Hickler, T., Hornborg, A., Kronsell, A., Eva Lövbrand, E. & Persson, J. (2011). Structuring sustainability science. *Sustainability Science*, 6, 69-82. <https://doi.org/10.1007/s11625-010-0117-x> (13)

Kates, R.W., Clark, W.C., Corell, R., Hall, J.M., Jaeger C.C., Lowe, I., McCarthy, J., Schellnhuber, H.J., Bolin, B., Dickson, N.M., *et al.* (2001). Sustainability Science. *Science*, 292(5517), 641-2. <https://www.jstor.org/stable/3083523> (2)

Lang, D. J., Wiek, A., Bergmann, M. *et al.* (2012). Transdisciplinary research in sustainability science: practice, principles and challenges. *Sustainability Science*. 7(Suppl. 1), 25-43. <https://doi.org/10.1007/s11625-011-0149-x> (18)

Lonkila, A. & Minna Kaljonen, M. (2022). Ontological struggle over new product category: Transition potential of meat alternatives, *Environmental Innovation and Societal Transitions*, 42, 1-11. <https://doi.org/10.1016/j.eist.2021.11.002> (11)

Loorbach, D., Frantzeskaki, N., & Avelino, F. (2017). Sustainability transitions research: transforming science and practice for societal change. *Annu. Rev. Environ. Resour.* 42(1), 599–626. <https://doi.org/10.1146/annurev-environ-102014-021340> (27)

Mahmoud, M., Liu, Y., Hartmann, H., Stewart, S., *et al.* (2009). A formal framework for scenario development in support of environmental decision-

making. *Environmental Modelling & Software* 24(7), 798–808.
<https://doi.org/10.1016/j.envsoft.2008.11.010> (11)

Meadows, D. (2008). *Thinking in Systems: A Primer*, Chelsea Green. (218)

Ostrom, E. (2009). A General Framework for Analyzing Sustainability of Social-Ecological Systems. *Science*, 325(24 July), 419–422.
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Partelow, S., Glaser, M., Solano Arce, S., Sá Leitão Barboza, R., & Schlüter, A. (2018). Mangroves, fishers, and the struggle for adaptive comanagement: applying the social-ecological systems framework to a marine extractive reserve (RESEX) in Brazil. *Ecology and Society*, 23(3).
<https://doi.org/10.5751/ES-10269-230319> (19)

Raudsepp-Hearne, C., Peterson, G.D., Bennett, E.M. *et al.* (2020). Seeds of good anthropocenes: developing sustainability scenarios for Northern Europe. *Sustainability Science*, 15, 605–617.
<https://doi.org/10.1007/s11625-019-00714-8> (12)

Spangenberg, J. H. (2011). Sustainability science: a review, an analysis and some empirical lessons. *Environmental Conservation*, 38(3), 275–287.
<https://doi.org/10.1017/S0376892911000270> (12)

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<https://doi.org/10.1016/j.landusepol.2016.10.051> (9)

Törnberg, A. (2021). Prefigurative politics and social change: a typology drawing on transition studies. *Journal of Social Theory*, 22(1), 83–107.
<https://doi.org/10.1080/1600910X.2020.1856161> (24)

Wiek, A. & Iwaniec, D. (2014). Quality criteria for visions and visioning in sustainability science. *Sustainability Science*, 9, 497–512.
<https://doi.org/10.1007/s11625-013-0208-6> (15)

Total number of pages (req'd reading)

512

Author gender balance

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