



**Literature for MESS18, Sustainability Science applies from
autumn semester 2022**

Literature established by The Board of the Lund University Centre for
Sustainability Studies on 2022-09-01 to apply from 2022-09-01

See appendix.



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MESS18 LITERATURE LIST

2022-09-01

Dnr STYR 2022/1635

Hållbarhetsvetenskap, 7,5 högskolepoäng

Sustainability Science, 7.5 credits

MESS18 litteraturlista fastställd av LUCSUS styrelse den 1 september 2022.

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)

Cash, D.W., Clark, W.C., Alcock, F., Dickson, N.M., Eckley, N., Guston, D.H., Jäger, J. & Mitchell R.B. (2003). Knowledge systems for sustainable development. *Proceedings of the National Academies, USA*, 100(14), 8086-8091. <https://doi.org/10.1073/pnas.1231332100> (6)

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)

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)

Funtowicz, S.O. & Ravetz, J.R. (1993 or 2020). Science for the Post-Normal Age. *Futures*. 25(7). 739-755. [https://doi.org/10.1016/0016-3287\(93\)90022-L](https://doi.org/10.1016/0016-3287(93)90022-L); <https://commonplace.knowledgefutures.org/pub/6qqfgms5/release/1> (16)

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. <https://www.jstor.org/stable/20536694> (4)

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)

Spanò, M., Gentile, F., Davies, C., Laforteza, R. (2017). The DPSIR framework in support of green infrastructure planning: A case study in Southern Italy, *Land Use Policy*, 61, 242-250.

<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)

Supplemental Reading resources

Anticipation

Swart, R. J., Raskin, P. & Robinson, J. (2004). *The problem of the future: sustainability science and scenario analysis*. *Global Environmental Change*, 14, 137–146.

Yates, L. (2015). Rethinking Prefiguration: Alternatives, Micropolitics and Goals in Social Movements, *Social Movement Studies*, 14(1), 1-21. DOI: 10.1080/14742837.2013.870883

Field evolution

Clark, W.C. & Dickson, N. M. (2003). Sustainability Science: the emerging research program. *Proceedings of the National Academies, USA*. 100(14), 8059-8061.

Clark, W.C. & Harley, A.G. (2020). Sustainability Science: Toward a Synthesis *Annual Review of Environment and Resources*, 45, 331-386.

<https://doi.org/10.1146/annurev-environ-012420-043621>

Miller, T. R. (2013). *Constructing sustainability science: emerging perspectives and research trajectories*. *Sustainability Science*. 8, 279-293.

Rokaya, P., Sheikholeslami, R., Kurkute, S., Nazarbakhsh, M., Zhang, F. & Reed, M. E. (2017). Multiple factors that shaped sustainability science journal: a 10-year review. *Sustainability Science*. 1-14.

<https://doi.org/10.1007/s11625-017-0495-4>

Systems

Banny Banerjee, B., [Claborn, K.](#), *et al.* (2019). *The Art of Systems Change: Eight Guiding Principles for a Green and Fair Future*. WWF Publications. <https://www.worldwildlife.org/publications/the-art-of-systems-change-eight-guiding-principles-for-a-green-and-fair-future>

Transdisciplinarity

Bergmann, M., Schöpke, N., Marg, O. *et al.* (2021). Transdisciplinary sustainability research in real-world labs: success factors and methods for change. *Sustainability Science*, 16, 541–564. <https://doi.org/10.1007/s11625-020-00886-8>

Wiek, A., Ness, B., Brand, F. S., [Schweizer-Ries, P.](#), & Farioli, F. (2012). From complex systems analysis to transformational change: a comparative appraisal of sustainability science projects. *Sustainability Science*. 27(1), 5–24.

Transitions

Frantzeskaki, N. & Loorbach, D. (2012). *Governing societal transitions to sustainability*. International Journal of Sustainable Development, 151(2), 19-36.

Geels, F. (2011). *The multi-level perspective on sustainability transitions: responses to seven criticisms*. *Environmental Innovation & Societal Transitions*, 1(1), 24-40. ISSN 2210-4224

Köhler, J., Geels, F. W., Kern, F., Markard, J., Onsongod, E., Wieczorek, A., Floortje Alkemade, Avelino, F., *et al.* (2019). Viewpoint: An agenda for sustainability transitions research: State of the art and future directions. *Environmental Innovation and Societal Transitions*, 31, 1–32.

Nevens, F., Gorissen, L., [Frantzeskaki, N.](#), & Loorbach, D. (2013). Urban Transition Labs: co-creating transformative action for sustainable cities. *Journal of Cleaner Production*, 50, 111-122.

Rotmans, J. & Loorbach, D. (2009). Complexity and Transition Management. *Journal of Industrial Ecology*, 13, 184–196.

Total number of pages (req'd reading)

491

Author gender balance

The authors I am guessing self-identify as female are denoted in [blue](#).