



**Literature for SASI03, Environmental Studies and
Sustainability Science: Concepts, Challenges and Approaches
in Sustainability Studies applies from autumn semester 2020**

Literature established by The Board of the Lund University Centre for
Sustainability Studies on 2020-06-11 to apply from 2020-06-11

See appendix.

Miljö- och hållbarhetsvetenskap: Koncept, utmaningar och angreppssätt inom hållbarhetsstudier, 7,5 högskolepoäng

Environmental Studies and Sustainability Science: Concepts, Challenges and Approaches in Sustainability Studies, 7,5 credits

SASIO3 litteraturlista fastställd av LUCSUS styrelse den 11 juni 2020 (Dnr STYR 2020/1049)

Alberti, Marina, Timon McPhearson, and Andrew Gonzalez. "Embracing Urban Complexity." In *Urban Planet*, edited by Thomas Elmqvist, et al., 1st ed., 45–67. Cambridge University Press, 2018. <https://doi.org/10.1017/9781316647554.004>. (23 Pages)

Berkes, F. 2017. Environmental Governance for the Anthropocene? Social-Ecological Systems, Resilience, and Collaborative Learning, *Sustainability* 2017, 9(7), 1232. Available at: <http://www.mdpi.com/2071-1050/9/7/1232/htm> (12 Pages)

Biggs, Reinette, Maja Schlüter, Duan Biggs, Erin L Bohensky, Shauna Burnsilver, Georgina Cundill, Vasilis Dakos, et al. "Toward Principles for Enhancing the Resilience of Ecosystem Services." *The Annual Review of Environment and Resources* 37 (2012): 421–448. <https://doi.org/10.1146/annurev-environ-051211-123836>. (27 Pages)

Elder-Vass, D. 2010. *The Causal Power of Social Structures – Emergence, Structure and Agency*. Cambridge University Press. "The problem of structure and agency" pp. 1-9. (9 Pages) Available through LUBsearch

Elmqvist, Thomas, Erik Andersson, Niki Frantzeskaki, Timon McPhearson, Per Olsson, Owen Gaffney, Kazuhiko Takeuchi, and Carl Folke. "Sustainability and Resilience for Transformation in the Urban Century." *Nature Sustainability* 2, no. 4 (April 2019): 267–73. <https://doi.org/10.1038/s41893-019-0250-1>. (7 pages)

Girod, B., van Vuuren, D. P., & Hertwich, E. G. (2014). Climate policy through changing consumption choices: Options and obstacles for reducing greenhouse gas emissions. *Global Environmental Change*, 25, 5–15. <https://doi.org/10.1016/j.gloenvcha.2014.01.004> (11 pages)

Foley, Jonathan A., Navin Ramankutty, Kate A. Brauman, Emily S. Cassidy, James S. Gerber, Matt Johnston, Nathaniel D. Mueller, et al. "Solutions for a Cultivated Planet." *Nature*. 478, no. 7369 (October 2011): 337–42. <https://doi.org/10.1038/nature10452>. (6 pages)

Grant, Andrew. "Every Community Needs a Forest of Imagination." In *Urban Planet*, edited by Thomas Elmqvist, et al., 1st ed., 362–64. Cambridge University Press, 2018. <https://doi.org/10.1017/9781316647554.022>. (3 Pages)

Haddad et al. 2015. Habitat fragmentation and its lasting impact on Earth's ecosystems. *Science Advances*. Vol. 1, no. 2. (10 Pages)

Haase, Dagmar, Burak Güneralp, Bharat Dahiya, Xuemei Bai, and Thomas Elmqvist. "Global Urbanization: Perspectives and Trends." In *Urban Planet*, edited by Thomas Elmqvist, et al.,

1st ed., 19–44. Cambridge University Press, 2018.
<https://doi.org/10.1017/9781316647554.003>. (26 Pages)

IPCC, 2018: Summary for Policymakers. *Global Warming of 1.5°C. An IPCC Special Report on the impacts of global warming of 1.5°C above pre-industrial levels and related global greenhouse gas emission pathways, in the context of strengthening the global response to the threat of climate change, sustainable development, and efforts to eradicate poverty*. Available at: <https://www.ipcc.ch/sr15/chapter/summary-for-policy-makers/> (24 Pages)

Karlsson, Johan O., Georg Carlsson, Mikaela Lindberg, Tove Sjunnestrand, and Elin Röö. “Designing a Future Food Vision for the Nordics through a Participatory Modeling Approach.” *Agronomy for Sustainable Development*, no. 6 (December 2018).
<https://doi.org/10.1007/s13593-018-0528-0>. (10 Pages)

*Kates, R et al. “Sustainability Science.” *Science* 292 (5517): 641-642. (2 pages)

*Klein, N. 2014. “[This Changes Everything](#)”. New York: Simon and Schuster. Introduction: One way or the other everything changes. (27 pages)

Lang, D., J., Wiek, A., Bergmann, M., Stauffacher, M., Martens, P., Moll, P., Swilling, M., Thomas, C. J. 2012. “Transdisciplinary research in sustainability science: practice, principles and challenges.” *Sustainability Science*, 7 (Suppl. 1): 25-43. (18 pages)

Li, T. M. (2010). Indigeneity, capitalism, and the management of dispossession. *Current Anthropology*, 51(3), 385-414. (30 Pages)

Martinez-Alier, J., Leah Temper, Daniela Del Bene & Arnim Scheidel (2016) Is there a global environmental justice movement?, *The Journal of Peasant Studies*, 43:3, 731-755, DOI: [10.1080/03066150.2016.1141198](https://doi.org/10.1080/03066150.2016.1141198) (25 Pages)

Martinez-Alier, J., et al., 2014. Between Activism and Science: Grassroots Concepts for Sustainability Coined by Environmental Justice Organizations. *Journal of Political Ecology* 21: 19–60. (42 Pages)

Masterson, Vanessa, Richard C. Stedman, Johan Enqvist, Maria Tengö, Matteo Giusti, Darin Wahl, and Uno Svedin. “The Contribution of Sense of Place to Social–Ecological Systems Research: A Review and Research Agenda.” *Ecology and Society* 22, no. 49 (2017). (14 Pages)

O’Neill, Daniel W., Andrew L. Fanning, William F. Lamb, and Julia K. Steinberger. “A Good Life for All within Planetary Boundaries.” *Nature Sustainability*, no. 2 (February 2018): 88–95. (8 Pages)

Pendrill, F., U. M. Persson, J. Godar, T. Kastner. Deforestation displaced: trade in forest-risk commodities and the prospects for a global forest transition. *Environmental Research Letters* 14, 055003 (2019). (14 Pages)

Pidcock, R., & Yeo, S. (2017, May 9). *Explainer: Dealing with the ‘loss and damage’ caused by climate change*. Carbon Brief.<https://www.carbonbrief.org/explainer-dealing-with-the-loss-and-damage-caused-by-climate-change> (4 Pages)

*Raworth, K. 2012. “A Safe and Just Space for Humanity. Can we live within the doughnut?” Oxford: Oxfam Discussion Papers. https://www-cdn.oxfam.org/s3fs-public/file_attachments/dp-a-safe-and-just-space-for-humanity-130212-en_5.pdf (26 pages)

*Rockström, J et al. 2009. “A safe operating space for humanity.” *Nature* 461(7263): 472-475. (3 pages)

Ritchie and Moser, 2017, 2019. “CO₂ and other Greenhouse Gas Emissions”. <https://ourworldindata.org/co2-and-other-greenhouse-gas-emissions>. (25 Pages)

Roser and Ritchie, 2020. “Hunger and Undernourishment”. <https://ourworldindata.org/hunger-and-overnourishment>. (15 pages)

Schlosberg, David (2013) Theorising environmental justice: the expanding sphere of a discourse, *Environmental Politics*, 22:1, 37-55, DOI: [10.1080/09644016.2013.755387](https://doi.org/10.1080/09644016.2013.755387). (19 Pages)

Taubert et al. 2018. Global patterns of tropical forest fragmentation. *Nature*, 554, 519-522 (4 Pages)

Tomich, T.P. et al. (2011). Agroecology: a review from a global-change perspective. *Annual Review of Environment and Resources*, 36, pp.193-222. (22pp)

UNFCCC Paris Agreement 2015
<https://unfccc.int/process-and-meetings/the-paris-agreement/what-is-the-paris-agreement>
(2 Pages)

van der Geest, K., & Schindler, M. (2016). Brief communication: Loss and damage from a catastrophic landslide in Nepal. *Natural Hazards and Earth System Sciences*, 16(11), 2347–2350. <https://doi.org/10.5194/nhess-16-2347-2016>
(4 Pages)

Watson, James E. M., Tom Evans, Oscar Venter, Brooke Williams, Ayesha Tulloch, Claire Stewart, Ian Thompson, et al. “The Exceptional Value of Intact Forest Ecosystems.” *Nature Ecology & Evolution* 2, no. 4 (April 2018): 599–610. <https://doi.org/10.1038/s41559-018-0490-x>. (12 Pages)

Watts, Nick, Markus Amann, Sonja Ayeb-Karlsson, Kristine Belesova, Timothy Bouley, Maxwell Boykoff, Peter Byass, et al. “The Lancet Countdown on Health and Climate Change: From 25 Years of Inaction to a Global Transformation for Public Health.” *The Lancet* 391, no. 10120 (February 2018): 581–630. [https://doi.org/10.1016/S0140-6736\(17\)32464-9](https://doi.org/10.1016/S0140-6736(17)32464-9). (50 Pages)

Willett, Walter, Johan Rockström, Brent Loken, Marco Springmann, Tim Lang, Sonja Vermeulen, Tara Garnett, et al. “Food in the Anthropocene: The EAT–Lancet Commission on Healthy Diets from Sustainable Food Systems.” *The Lancet* 393, no. 10170 (February 2019): 447–92. [https://doi.org/10.1016/S0140-6736\(18\)31788-4](https://doi.org/10.1016/S0140-6736(18)31788-4). (45 Pages)

Wynes, S., & Nicholas, K. A. (2017). The climate mitigation gap: Education and government recommendations miss the most effective individual actions. *Environmental Research Letters*, 12(7), 074024. <https://doi.org/10.1088/1748-9326/aa7541>
(9 Pages)

Pages: 577

For a 7,5 credits first cycle course the social sciences faculty recommends 1,000 pages. The page number for this course is 577, and the justification is that several lecturers has wanted to give a few absolutely key texts rather than countless sources. The course also includes five assignments, which will be time-consuming and require considerable extra reading.

Gender balance: 47% female first-authorship - with 26 pages no main authors identified (e.g. UN Report summary)

393 pages - academic peer-reviewed articles

46 pages - [online non-academic articles](#)

50 pages - [reports](#) (e.g. IPCC)

88 pages - [books](#)

Additional readings to be suggested by guest lecturers.