

Bibliography

- Adler, C. E. and Hirsch Hadorn, G. (2014). The IPCC and treatment of uncertainties: topics and sources of dissensus. *Wiley Interdisciplinary Reviews: Climate Change*, 5(5): 663–676.
- Afsen, K. H. and Skodvin, T. (1998). The Intergovernmental Panel on Climate Change (IPCC) and Scientific Consensus: How Scientists Come to Say What They Say about Climate Change. CICERO Policy Note 1998:3, University of Oslo, ISSN: 0804-4511.
- Agarwal, A., Kalpana, S. and Ravi, C. (1982). *State of India's Environment: A Citizen's Report*. New Delhi: Centre for Science and Environment.
- Agarwal, A. and Narain, S. (1991). *Global Warming in an Unequal World*. New Delhi: Centre for Science and the Environment.
- Agrawala, S. (1998a). Context and early origins of the Intergovernmental Panel on Climate Change. *Climatic Change*, 39(4): 605–620.
- Agrawala, S. (1998b). Structural and process history of the Intergovernmental Panel on Climate Change. *Climatic Change*, 39(4): 621–642.
- Agrawala, S., Broad, K. and Guston, D. H. (2001). Integrating climate forecasts and societal decision making: challenges to an emergent boundary organization. *Science, Technology, & Human Values*, 26(4): 454–477.
- Ahmed, S. (2012). *On Being Included: Racism and Diversity in Institutional Life*. Durham, NC and London: Duke University Press.
- Alcamo, J., Bouwman, A., Edmonds, J., et al. (1995). An evaluation of the IPCC IS92 emission scenarios. In: Houghton, J. T., et al. (eds.), *Climate Change 1994: Reports of Working Groups I and II of the Intergovernmental Panel on Climate Change, forming part of the IPCC Special Report to the first session of the Conference of the Parties to the UN Framework Convention on Climate Change*. Cambridge: Cambridge University Press.
- Allan, J., Gutiérrez, M. and Bhandari, R. (2016). Summary of the 44th Session of the IPCC: 17–20 October 2016, *Earth Negotiations Bulletin*, 12 (677). International Institute for Sustainable Development – Reporting Services.
- Anderson, B. (1991). *Imagined Communities: Reflections on the Origin and Spread of Nationalism*. New York: Verso Books.
- Anderson, K. (2015). Duality in climate science. *Nature Geoscience*, 8: 898–900.
- Anderson, K. and Jewell, J. (2019). Debating the bedrock of climate-change mitigation scenarios. *Nature*, 57: 348–349.

- Anderson, K. and Peters, G. (2016). The trouble with negative emissions. *Science*, 354: 182–183.
- Anon. (2011). Evolving the IPCC. *Nature Climate Change*, 1(8): 227.
- Anon. (2018). Editorial: Science benefits from diversity. *Nature*, 558: 5.
- Anon. (2021). Food science faces its ‘IPCC’ moment. *Nature*, 595: 332.
- Asayama, S. (2021). Threshold, budget and deadline: beyond the discourse of climate scarcity and control. *Climatic Change*, 167(3): 33.
- Asayama, S., Bellamy, R., Geden, O., Pearce, W. and Hulme, M. (2019). Why setting a climate deadline is dangerous. *Nature Climate Change*, 9(8): 570–572.
- Asayama, S. and Ishii, A. (2014). Reconstruction of the boundary between climate science and politics: the IPCC in the Japanese mass media, 1988–2007. *Public Understanding of Science*, 23(2): 189–203.
- Asdal, K. (2008). Enacting things through numbers: taking nature into accounting. *Geoforum*, 39(1): 123–132.
- Augé, M. (1995). *Non-Places: Introduction to an Anthropology of Supermodernity*. New York: Verso.
- Aven, T. (2020). Climate change risk – What is it and how should it be expressed? *Journal of Risk Research*, 23(11): 1–18.
- Aven, T. and Renn, O. (2015). An evaluation of the treatment of risk and uncertainties in the IPCC reports on climate change. *Risk Analysis*, 35(4): 701–712.
- Ayers, J. M. and Huq, S. (2009). The value of linking mitigation and adaptation: a case study of Bangladesh. *Environmental Management*, 43(5): 753–764.
- Aykut, S. C., Morena, E. and Foyer, J. (2021). ‘Incantatory’ governance: global climate politics’ performative turn and its wider significance for global politics. *International Politics*, 58: 519–540.
- Bacevic, J. (2022). Epistemic injustice and epistemic positioning: towards an intersectional political economy. *Current Sociology*. <http://doi.org/10.1177/00113921211057609>
- Bäckstrand, K. (2015). Civic society. In: Pattberg, P. and Zelli, F. (eds.), *Encyclopedia of Global Environmental Governance and Politics*. Cheltenham: Edward Elgar Publishing.
- Baker, M. (2015). Over half of psychology studies fail reproducibility test. *Nature*, 27 August. <http://doi.org/10.1038/nature.2015.18248>
- Barkemeyer, R., Dessai, S., Monge-Sanz, B., Renzi, B. G., and Napolitano, G. (2016). Linguistic analysis of IPCC summaries for policymakers and associated coverage. *Nature Climate Change*, 6(3): 311–316.
- Barry, J. (2021). Green republicanism and a ‘Just Transition’ from the tyranny of economic growth. *Critical Review of International Social and Political Philosophy*, 24(5): 725–742.
- Barry, A., Born, G. and Wieszkalnys, G. (2008). Logics of interdisciplinarity. *Economy and Society*, 37(1): 20–49.
- Bazeley, P. (2003). Defining ‘early career’ in research. *Higher Education*, 45: 257–279.
- Beatty, J. and Moore, A. (2010). Should we aim for consensus? *Episteme, A Journal of Social Epistemology*, 7(3): 198–214.
- Beck, S. (2011a). Moving beyond the linear model of expertise? IPCC and the test of adaptation. *Regional Environmental Change*, (11): 297–306.
- Beck, S. (2011b). Between tribalism and trust: the IPCC under the ‘public microscope’. *Nature and Culture*, 7(2): 151–173.
- Beck, S. (2012). The challenges of building cosmopolitan climate expertise: the case of Germany. *Wiley Interdisciplinary Reviews: Climate Change*, 3(1): 1–17.

- Beck, S. and Forsyth, T. J. (2015). Co-production and democratizing global environmental expertise: The IPCC and adaptation to climate change. In: Hilgartner, S., Miller, C. A. and Hagedijk, R. (eds.), *Science and Democracy: Making Knowledge and Making Power in the Biosciences and Beyond*. New York: Routledge. pp. 113–132.
- Beck, S. and Mahony, M. (2018a). The IPCC and the new map of science and politics. *Wiley Interdisciplinary Reviews: Climate Change*, 9(6): e547.
- Beck, S. and Mahony, M. (2018b). The politics of anticipation: the IPCC and the negative emission technologies experience. *Global Sustainability*, 1: e8.
- Beck, S. and Oomen, J. (2021). Imagining the corridor of climate mitigation – What is at stake in IPCC’s politics of anticipation? *Environmental Science & Policy*, 123: 169–178.
- Beck, S., Borie, M., Chilvers, J., et al. (2014). Towards a reflexive turn in the governance of global environmental expertise. The cases of the IPCC and the IPBES. *GAIA*, 23(2): 80–87.
- Beck, S., Jasanoff, S., Stirling, A. and Polzin, C. (2021). The governance of sociotechnical transformations to sustainability. *Current Opinion in Environmental Sustainability*, 49: 143–152.
- Beck, U., Giddens, A. and Lash, S. (1994). *Reflexive Modernization: Politics, Tradition and Aesthetics in the Modern Social Order*. Stanford, CA: Stanford University Press.
- Begum, R. A., Lempert, R., Ali, E., et al. (2022). Point of departure and key concepts. In: Pörtner, H. O. et al. (eds.), *Climate Change 2022: Impacts, Adaptation, and Vulnerability*. Cambridge: Cambridge University Press. pp. 1–102.
- Bell, M. L., Davis, D. L. and Fletcher, T. (2004). A retrospective assessment of mortality from the London smog episode of 1952: the role of influenza and pollution. *Environmental Health Perspectives*, 112(1): 6–8.
- Berkes, F. (2018). *Sacred Ecology*. 4th ed. Abingdon: Routledge.
- Bernstein, S. (2001). *The Compromise of Liberal Environmentalism*. New York: Columbia University Press.
- Biermann, F. (2001). Big science, small impacts—in the South? The influence of global environmental assessments on expert communities in India. *Global Environmental Change*, 11(4): 297–309.
- Biermann, F. (2011). New actors and mechanisms of global governance. In: Dryzek, J. S., Norgaard, R. B. and Schlosberg, D. (eds.), *The Oxford Handbook of Climate Change and Society*. Oxford: Oxford University Press. pp. 685–695.
- Biermann, F. (2020). World environment organization. In: Morin, J. F. and Orsini, A. (eds.), *Essential Concepts of Global Environmental Governance*. Abingdon: Routledge. pp. 291–293.
- Bjurström, A. and Polk, M. (2011). Physical and economic bias in climate change research: a scientometric study of IPCC Third Assessment Report. *Climatic Change*, 108(1): 1–22.
- Bodansky, D. (2001). The history of the global climate change regime. In: Luterbacher, U. and Sprinz, D. F. (eds.), *International Relations and Global Climate Change*. Cambridge, MA: MIT Press. pp. 23–40.
- Boehmer-Christiansen, S. (1994a). Global climate protection policy: the limits of scientific advice. Part 1. *Global Environmental Change*, 4: 140–159.
- Boehmer-Christiansen, S. (1994b). Global climate protection policy: the limits of scientific advice. Part 2. *Global Environmental Change*, 4: 185–200.
- Boehmer-Christiansen, S. (1995). Britain and the International Panel on Climate Change: the impact of scientific advice on global warming, Parts 1 and 2. *Environmental Politics*, 4(1): 1–18 and (2):175–196.

- Boehmer-Christiansen, S. (1996). Political pressure in the formation of scientific consensus. *Energy and Environment*, 7: 365–376.
- Boehmer-Christiansen, S. and Kellow, A. (2002). *International Environmental Policy. Interests and the Failure of the Kyoto Process*. Cheltenham: Edward Elgar.
- Bolin, B. (1991). The Intergovernmental Panel on Climate Change. In: Jäger, J. and Ferguson, H. L. (eds.), *Climate Change: Science, Impacts, and Policy, Proceedings of the Second World Climate Conference*. Cambridge: Cambridge University Press.
- Bolin, B. (2007). *A History of the Science and Politics of Climate Change: The Role of the Intergovernmental Panel on Climate Change*. Cambridge: Cambridge University Press.
- Bony, S., Stevens, B., Held, I. H., et al. (2013). Carbon dioxide and climate: perspectives on a scientific assessment. In: Asrar, G. and Hurrell, J. (eds.), *Climate Science for Serving Society*. Dordrecht, Netherlands: Springer. pp. 391–414.
- Borie, M., Gustrafsson, K. M., Obermeister, N., Turnhour, E. and Bridgewater, P. (2020). Institutionalising reflexivity? Transformative learning and the Intergovernmental science-policy Platform on Biodiversity and Ecosystem Services (IPBES). *Environmental Science & Policy*, 110: 71–76.
- Borie, M., Mahony, M., Obermeister, N. and Hulme, M. (2021). Knowing like a global expert organization: comparative insights from the IPCC and IPBES. *Global Environmental Change*, 68: 102261.
- Bounegru, L., De Pryck, K., Venturini, T. and Mauri, M. (2020). ‘We only have 12 years’: YouTube and the IPCC Report on Global Warming of 1.5°C. *First Monday*, 25(2). Available at: <https://journals.uic.edu/ojs/index.php/fm/article/view/10112> (Accessed: 2 July 2020).
- Boykoff, M. and Pearman, O. (2019). Now or never: how media coverage of the IPCC Special Report on 1.5°C shaped climate-action deadlines. *One Earth*, 1(3): 285–288.
- Boykoff, M. T. and Yulsman, T. (2013). Political economy, media, and climate change: sinews of modern life. *Wiley Interdisciplinary Reviews: Climate Change*, 4(5): 359–371.
- Broome, J. (2020). Philosophy in the IPCC. In: Brister, E. and Frodeman, R. (eds.), *Philosophy for the Real World*. London: Routledge. pp. 95–110.
- Brown, H. and Green, M. (2017). Demonstrating development: meetings as management in Kenya’s health sector. *Journal of the Royal Anthropological Institute*, 23(S1): 45–62.
- Brown, H., Reed, A. and Yarrow, T. (2017). Introduction: towards an ethnography of meeting. *Journal of the Royal Anthropological Institute*, 23(S1): 10–26.
- Brown, M. B. (2009). *Science in Democracy: Expertise, Institutions and Representation*. Cambridge, MA: MIT Press.
- Bruce, J. P., Lee, H. and Haites, E. F. (eds.) (1996). *Climate Change 1995: Economic and Social Dimensions of Climate Change—Contribution of Working Group III to the Second Assessment Report of the Intergovernmental Panel on Climate Change*. Cambridge: Cambridge University Press.
- Bruine de Bruin, W., Rabinovich, L., Weber, K., Babboni, M., Dean, M. and Ignon, L. (2021). Public understanding of climate change terminology. *Climatic Change*, 167(3–4): 37.
- Brysse, K., Oreskes, N., O’Reilly, J. and Oppenheimer, M. (2013). Climate change prediction: erring on the side of least drama? *Global Environmental Change*, 23(1): 327–337.
- Callaghan, M., Schleussner, C.-F., Nath, S., et al. (2021). Machine-learning-based evidence and attribution mapping of 100,000 climate impact studies. *Nature Climate Change*, 11: 966–972.

- Campbell, L. M., Corson, C., Gray, N. J., MacDonald, K. I. and Brosius, J. P. (2014). Studying global environmental meetings to understand global environmental governance. *Global Environmental Politics*, 14(3): 1–20.
- Carey, M., James, L. C. and Fuller, H. A. (2014). A new social contract for the IPCC. *Nature Climate Change*, 4: 1038–1039.
- Carraro, C., Edenhofer, O., Flachsland, C., Kolstad, C., Stavins, R. and Stowe, R. (2015). The IPCC at a crossroads: opportunities for reform. *Science*, 350 (6256): 34–35.
- Carton, W., Asiyani, A., Beck, S., Buck, H. and Lund, J. (2020). Negative emissions and the long history of carbon removal. *Wiley Interdisciplinary Reviews: Climate Change*. 11(6): e671.
- Casado, M., Gremion, G., Rosenbaum, P., et al. (2019). The benefits to climate science of including early career scientists as reviewers. *Geoscience Communication*, 3: 89–97.
- Caseldine, C. J., Turney, C., and Long, A. J. (2010). IPCC and palaeoclimate: an evolving story? *Journal of Quaternary Science*, 25(1): 1–4.
- Cash, D., Clark, W., Alcock, F., Dickson, N., Eckley, M. and Jäger, J. (2002). *Saliency, Credibility, Legitimacy and Boundaries: Linking Research, Assessment and Decision Making*. WP RWP02–046, Faculty Research Working Papers Series, John F Kennedy School of Government, Harvard University, Cambridge, MA.
- Castells, M. (2018). *Rupture: The Crisis of Liberal Democracy*. Hoboken, NJ: John Wiley & Sons.
- Castree, N., Bellamy, R. and Osaka, S. (2021). The future of global environmental assessments: making a case for fundamental change. *The Anthropocene Review*, 8(1): 56–82.
- Chan, G., Carraro, C., Edenhofer, O., Kolstad, C. and Stavins, R. (2016). Reforming the IPCC's Assessment of Climate Change Economics. *Climate Change Economics*, 7(1): 1–16.
- Chen, D., Rojas, M., Samset, B. H., et al. (2021). Framing, context, and methods. In: Masson-Delmotte, V., Zhai, P., Pirani, A., et al. (eds.), *Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change*. Cambridge: Cambridge University Press.
- Chubin, D. E. and Hackett, E. J. (1990). *Peerless Science: Peer Review and U.S. Science Policy*. Albany: State University of New York Press.
- Clarke, L., Jiang K., Akimoto, M., et al. (2014). Assessing transformation pathways. In: Edenhofer, O., Pichs-Madrugada, R., Sokona, Y., et al. (eds.), *Climate Change 2014: Mitigation of Climate Change. Contribution of Working Group III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*. Cambridge and New York: Cambridge University Press. pp. 413–510.
- Clark, W. C., Mitchell, R. B. and Cash, D. W. (2006). Evaluating the influence of global environmental assessments. In: Mitchell, R. B., Clark, W. C., Cash, W. and Dickson, N. (eds.), *Global Environmental Assessments: Information and Influence*. Cambridge, MA: MIT Press. pp. 1–28.
- Cointe, B., Cassen, C. and Nadaï, A. (2019). Organising policy-relevant knowledge for climate action: Integrated Assessment Modelling, the IPCC, and the emergence of a collective expertise on socioeconomic emission scenarios. *Science and Technology Studies*, 32(4): 36–57.
- Cointe, B., Ravon, P.-A. and Guérin, E. (2011). *2°C: The History of a Policy-Science Nexus*. 19/11. Paris: IDDRI.
- Compagnon, D. and Bernstein, S. (2017). Nondemarcated spaces of knowledge-informed policy making. *Review of Policy Research*, 34(6): 812–826.

- Corbera, E., Calvet-Mir, L., Hughes, H. and Paterson, M. (2016). Patterns of authorship in the IPCC Working Group III report. *Nature Climate Change*, 6: 94–99.
- Corner, A. and Groves, C. (2014). Breaking the climate change communication deadlock. *Nature Climate Change*, 4(9): 743–745.
- Craggs, R. and Mahony, M. (2014). The geographies of the conference: knowledge, performance and protest. *Geography Compass*, 8(6): 414–430.
- Cresswell, T. (2004). *Place: A Short Introduction*. Oxford: Blackwell.
- Curry, J. A. and Webster, P. J. (2013). Climate change: no consensus on consensus. *CAB Reviews*, 8(001): 1–9.
- Dahan-Dalmedico, A. (2008). Climate expertise: between scientific credibility and geopolitical imperatives. *Interdisciplinary Science Reviews*, 33(1): 71–81.
- Dahan-Dalmedico, A. (2010). Putting the Earth System in a numerical box? The evolution from climate modeling toward climate change. *Studies in History and Philosophy of Modern Physics*, 41(3): 282–292.
- Dahl, T. and Fløttum, K. (2017). Verbal-visual harmony or dissonance? A news values analysis of multimodal news texts on climate change. *Discourse, Context & Media*, 20: 124–131.
- Dairon, E. and Badache, F. (2021). Understanding international organizations' headquarters as ecosystems: the case of Geneva. *Global Policy*, 12(Sup.7): 24–33.
- Dauvergne, P. (2021). Global governance and the Anthropocene: explaining the escalating global crisis. In: Weiss, T. G. and Wilkinson, R. (eds.), *Global Governance Futures*. London: Routledge.
- David-Chavez, D. M. and Gavin, M. C. (2018). A global assessment of Indigenous community engagement in climate research. *Environmental Research Letters*, 13(123005).
- De Pryck, K. (2018). *Expertise under Controversy: The Case of the Intergovernmental Panel on Climate Change (IPCC)*. PhD Dissertation, Institut d'études politiques de Paris and Université de Genève.
- De Pryck, K. (2021a). Intergovernmental expert consensus in the making: the case of the summary for policy makers of the IPCC 2014 Synthesis Report. *Global Environmental Politics*, 21(1): 108–129.
- De Pryck, K. (2021b). Controversial practices: tracing the proceduralization of the IPCC in time and space. *Global Policy*, 12(Sup.7): 80–89.
- De Pryck, K. and Wanneau, K. (2017). (Anti)-boundary work in global environmental change research and assessment. *Environmental Science & Policy*, 77: 203–210.
- Death, C. (2011). Summit theatre: exemplary governmentality and environmental diplomacy in Johannesburg and Copenhagen. *Environmental Politics*, 20(1): 1–19.
- Delvenne, P. and Parotte, C. (2019). Breaking the myth of neutrality: technology assessment has politics, technology assessment as politics. *Technological Forecasting and Social Change*, 139: 64–72.
- Demeritt, D. (2001). The construction of global warming and the politics of science. *Annals of the Association of American Geographers*, 91(2): 307–337.
- Demeritt, D. and Rothman, D. (1999). Figuring the costs of climate change: an assessment and critique. *Environment and Planning A*, 31(3): 389–408.
- Devès, M. H., Lang, M., Bourrelier, P.-H. and Valérian, F. (2017). Why the IPCC should evolve in response to the UNFCCC bottom-up strategy adopted in Paris? An opinion from the French Association for Disaster Risk Reduction. *Environmental Science & Policy*, 78(Supplement C): 142–148.
- Díaz, S., Settele, J., Brondizio, E. S., et al. (2019). Pervasive human-driven decline of life on earth points to the need for transformative change. *Science*, 366: 1327.

- Díaz-Reviriego, I., Turnhout, E. and Beck, S. (2019). Participation and inclusiveness in the Intergovernmental Science–Policy Platform on Biodiversity and Ecosystem Services. *Nature Sustainability*, 2: 457–464.
- Doyle, J. (2011). *Mediating Climate Change*. Abingdon: Routledge.
- Draper, D. (1995). Assessment and propagation of model uncertainty. *Journal of the Royal Statistical Society. Series B: Statistical Methodology*, 57: 45–97.
- Duarte, T. (2019). O painel brasileiro de mudanças climáticas na interface entre ciência e políticas públicas: identidades, geopolítica e concepções epistemológicas. *Sociologias*, 21: 76–101.
- Dudman, K. and de Wit, S. (2021). An IPCC that listens: introducing reciprocity to climate change communication. *Climatic Change*, 168(1–2): 2.
- Dunlap, R. E. and McCright, A. M. (2011). Organized climate change denial. In: Dryzek, J. S., Norgaard, R. B. and Schlosberg, D. (eds.), *The Oxford Handbook of Climate Change and Society*. Oxford: Oxford University Press. pp. 144–160.
- Dupuy, J. P. (2012). The precautionary principle and enlightened doomsaying. *Revue de Métaphysique et de Morale*, (4): 577–592.
- Dryzek, J. S. (2012). *Foundations and Frontiers of Deliberative Governance*. Oxford: Oxford University Press.
- ECOSOC and Permanent Forum on Indigenous Issues (2007). *Report of the Secretariat on Indigenous Traditional Knowledge*. Available at: www.ncbi.nlm.nih.gov/pubmed/20845205 (Accessed: 12 February 2022).
- ECOSOC and Permanent Forum on Indigenous Issues (2013a). *Study on How the Knowledge, History and Contemporary Social Circumstances of Indigenous Peoples are Embedded in the Curricula of Education Systems*. Available at: <https://digitallibrary.un.org/record/746773?ln=en> (Accessed: 12 February 2022).
- ECOSOC and Permanent Forum on Indigenous Issues (2013b). *Study on Resilience, Traditional Knowledge and Capacity-Building for Pastoralist Communities in Africa*. <http://doi.org/10.1093/oxfordhb/9780199560103.003.0007>
- ECOSOC and Permanent Forum on Indigenous Issues (2014). *Study to Examine Challenges in the African Region to Protecting Traditional Knowledge, Genetic Resources and Folklore*. <http://doi.org/10.1093/oxfordhb/9780199560103.003.0007>.
- ECOSOC and Permanent Forum on Indigenous Issues (2015). *Study on the Treatment of Traditional Knowledge in the Framework of the United Nations Declaration on the Rights of Indigenous Peoples and the Post-2015 Development Agenda*. UN Digital Library. Available at: <https://digitallibrary.un.org/record/788550?ln=en> (Accessed: 12 February 2022).
- Edenhofer, O. (2011). Different views ensure IPCC balance. *Nature Climate Change*, 1: 229–230.
- Edenhofer, O. and Kowarsch, M. (2015). Cartography of pathways: a new model for environmental policy assessments. *Environmental Science & Policy*, 51: 56–64.
- Edwards, P. N. (1999). Global climate science, uncertainty and politics: data-laden models, models-filtered data. *Science as Culture*, 8(4): 437–472.
- Edwards, P. N. (2010). *A Vast Machine: Computer Models, Climate Data and the Politics of Global Warming*. Cambridge, MA: MIT Press.
- Edwards, P. N. and Schneider, S. H. (1997). IPCC 1995 Report: Broad consensus or ‘scientific cleansing’? *Ecofables/Ecoscience*, 1: 3–9.
- Edwards, P. N. and Schneider, S. H. (2001). Self-governance and peer review in science-for-policy: The case of the IPCC Second Assessment Report. In: Miller, C. A. and Edwards, P. N. (eds.), *Changing the Atmosphere: Expert Knowledge and Environmental Governance*. Cambridge, MA: MIT Press. pp. 219–246.

- Ekwurzel, B., Frumhoff, P. C. and McCarthy, J. J. (2011). Climate uncertainties and their discontents: increasing the impact of assessments on public understanding of climate risks and choices. *Climatic Change*, 108(4): 791.
- El-Hinnawi, E. (2011). The intergovernmental panel on climate change and developing countries. *The Environmentalist*, 31(3): 197–199.
- Elzinga, A. (1996). Shaping worldwide consensus: the orchestration of global change research. In: Elzinga, A. and Landström, C. (eds.), *Internationalism and Science*. London: Taylor Graham. pp. 223–255.
- ENB [Earth Negotiations Bulletin] (2021). Summary of the 54th Session of the Intergovernmental Panel on Climate Change and the 14th Session of Working Group I: 26 July–6 August 2021. *IISD*, 12(781): 1–27.
- ERC [European Research Council] (2021). *Starting Grant*. Available at: <https://erc.europa.eu/funding/starting-grants> (Accessed: 16 December 2021).
- ETC Group (2017). *Re: Conflicts of Interest of Authors on the IPCC Special Report on the Impacts of Global Warming of 1.5°C Above Pre-industrial Levels*. Available at: www.etcgroup.org/files/files/ipcc_conflict_of_interest_release_051217.pdf (Accessed: 25 January 2022).
- European Union (2021). 2050 Long-Term Strategy. Available at: https://ec.europa.eu/clima/eu-action/climate-strategies-targets/2050-long-term-strategy_en (Accessed: 12 February 2022).
- Ezrahi, Y. (1990). *The Descent of Icarus: Science and the Transformation of Contemporary Democracy*. Cambridge, MA: Harvard University Press.
- Ezrahi, Y. (2012). *Imagined Democracies: Necessary Political Fictions*. Cambridge: Cambridge University Press.
- Fankhauser, S. and Tol, R. S. J. (1998). The value of human life in global warming impacts – a comment. *Mitigation and Adaptation Strategies for Global Change*, 3: 87–88.
- Farrell, A., VanDeveer, S. D. and Jäger, J. (2001). Environmental assessments: four underappreciated elements of design. *Global Environmental Change*, (11): 311–333.
- Fearnside, P. M. (1998). The value of human life in global warming impacts. *Mitigation and Adaptation Strategies for Global Change*, 3: 83–85.
- Feder, T. (1996). Attacks on IPCC report heat controversy over global warming. *Physics Today*, 49(8): 55–57.
- Field, C. B. and Barros, V. R. (2015). Added value from IPCC approval sessions. *Science*, 350(6256): 36.
- Fink, L. (2020). *A Fundamental Reshaping of Finance*. Black Rock. Available at: www.blackrock.com/corporate/investor-relations/2020-larry-fink-ceo-letter (Accessed: 12 February 2022).
- Fiol, C. M. and Lyles, M. A. (1985). Organizational learning. *Academy of Management Review*, 10: 803–813.
- Fischer, F. (2019). Knowledge politics and post-truth in climate denial: on the social construction of alternative facts. *Critical Policy Studies*, 13(2): 133–152.
- Fløttum, K., Gasper, D. and St. Clair, A. L. (2016). Synthesizing a policy-relevant perspective from the three IPCC ‘worlds’ – a comparison of topics and frames in the SPMs of the Fifth Assessment Report. *Global Environmental Change*, 38: 118–129.
- Fogel, C. (2005). Biotic carbon sequestration and the Kyoto protocol: the construction of global knowledge by the intergovernmental panel on climate change. *International Environmental Agreements: Politics, Law and Economics*, 5(2): 191–210.
- Ford, J. D., Cameron, L., Rubis, J., et al. (2016). Including indigenous knowledge and experience in IPCC assessment reports. *Nature Climate Change*, 6: 349–353.

- Ford, J. D., Vanderbilt, W. and Berrang-Ford, L. (2012). Authorship in IPCC AR5 and its implications for content: climate change and Indigenous populations in WGII. *Climatic Change*, 113: 201–213.
- Forest Peoples Programme et al. (2020). *Local Biodiversity Outlooks 2: The contributions of indigenous peoples and local communities to the implementation of the Strategic Plan for Biodiversity 2011–2020 and to renewing nature and cultures. A compliment to the fifth edition of the Global Biodiv.* Moreton-in-Marsh, UK: Forest Peoples Programme. Available at: www.localbiodiversityoutlooks.net (Accessed: 12 February 2022).
- Foucault, M. (1991). Governmentality. In: Burchell, G., Gordon, C. and Miller, P. (eds.), *The Foucault Effect: Studies in Governmentality*. Chicago, IL: University of Chicago Press.
- Franz, W. E. (1998). Science, skeptics and non-state actors in the greenhouse. *ENRP Discussion Paper E-98-18*. Kennedy School of Government, Harvard University. Available at: www.belfercenter.org/sites/default/files/files/publication/Science%20Skeptics%20and%20Non-State%20Actors%20in%20the%20Greenhouse%20-%20E-98-18.pdf (Accessed: 19 January 2022).
- Freedman, A. (2019). Climate scientists refute 12-year deadline to curb global warming. *Axios*. Available at: www.axios.com/climate-change-scientists-comment-ocasio-cortez-12-year-deadline-c4ba1f99-bc76-42ac-8b93-e4eaa926938d.html (Accessed: 15 March 2019).
- Fry, I. (2002). Twists and turns in the jungle: exploring the evolution of land use, land–use change and forestry decisions within the Kyoto Protocol. *Review of European Community and International Environmental Law*, 11(2): 159–168.
- Fuglesteved, J., Guivarch, C., Jones, C., et al. (2021). The SSP scenarios as used in Working Group I. Cross-Chapter Box 1.4. In: Masson-Delmotte, V., Zhai, P., Pirani, A., et al. (eds.), *Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change*. Cambridge: Cambridge University Press.
- Fuller, S. (2002). *Social Epistemology*. 2nd ed. Bloomington: Indiana University Press.
- Funtowicz, S. O. and Ravetz, J. R. (1990). *Uncertainty and Quality in Science for Policy*. Amsterdam: Kluwer Academic Publishers.
- Funtowicz, S. O. and Ravetz, J. R. (1993). Science for the post-normal age. *Futures*, 25(7): 739–755.
- Futhazar, G. (2016). From Climate to Biodiversity – Procedural transcriptions and innovations within IPBES in the light of IPCC practices. In: Hrabanski, M. and Pesche, D. (eds.), *The Intergovernmental Platform on Biodiversity and Ecosystem Services (IPBES). Meeting the Challenge of Biodiversity Conservation and Governance*. London: Routledge. pp. 102–118.
- Garard, J. and Kowarsch, M. (2017). If at first you don't succeed: evaluating stakeholder engagement in global environmental assessments. *Environmental Science & Policy*, 77: 235–243.
- Garb, Y., Pulver, S. and VanDeveer, S. D. (2008). Scenarios in society, society in scenarios: toward a social scientific analysis of storyline-driven environmental modelling. *Environmental Research Letters*, 3(4): 045015.
- Garnett, S. T., Burgess, N. D. and Fa. J. E., et al. (2018). A spatial overview of the global importance of Indigenous lands for conservation. *Nature Sustainability*, 1(7): 369–374.

- Gates, W., Boyle, J. S., Covey, C., et al. (1999). An overview of the results of the Atmospheric Model Intercomparison Project (AMIP 1). *Bulletin of the American Meteorological Society*, 80(1): 29–56.
- Gaulkin, T. (2021). Why the bad news in IPCC reports is good news for visual learners. *Bulletin of the Atomic Scientists*. Available at: <https://thebulletin.org/2021/08/why-the-bad-news-in-the-ippc-report-is-good-news-for-visual-learners/> (Accessed: 20 August 2021).
- Gay-Antaki, M. (2021). Stories from the IPCC: an essay on climate science in fourteen questions. *Global Environmental Change*, 71: 102384.
- Gay-Antaki, M. and Liverman, D. (2018). Climate for women in climate science: women scientists and the Intergovernmental Panel on Climate Change. *Proceedings of the National Academy of Sciences of the United States of America*, 115(9): 2060–2065.
- Geden, O. (2015). Policy: climate advisers must maintain integrity. *Nature*, 521(7550): 27–28.
- Ghaleigh, N. S. (2016). Science and climate change law – The role of the IPCC in international decision-making. In: Gray, K. R., Tarasofsky, R., and Carlarne, C. (eds.), *The Oxford Handbook of International Climate Change Law*. Oxford: Oxford University Press. pp. 56–71.
- Gieryn, T. F. (1995). Boundaries of science. In: Jasanoff, S., Markle, G. E., Peterson, J. C. and Pinch, T. (eds.), *Handbook of Science and Technology Studies*. Thousand Oaks, CA: Sage Publications. pp. 393–443.
- Gieryn, T. F. (1999). *Cultural Boundaries of Science: Credibility on the Line*. Chicago, IL: University of Chicago Press.
- Gieryn, T. F. (2002). What buildings do. *Theory and Society*, 31(1): 35–74.
- Gieryn, T. F. (2018). *Truth-Spots: How Places Make People Believe*. Chicago, IL: The University of Chicago Press.
- Gilbert, M. (2002). Belief and acceptance as features of groups. *Protosociology*, 16: 35–69.
- Gills, B. and Morgan, J. (2020). Global climate emergency: after COP24, climate science, urgency, and the threat to humanity. *Globalizations*, 17(6): 885–902.
- Girod, B., Wiek, A., Mieg, H. and Hulme, M. (2009). The evolution of the IPCC's emissions scenarios. *Environmental Science & Policy*, 12: 103–118.
- Godal, O. (2003). The IPCC's assessment of multidisciplinary issues: the case of greenhouse gas indices. *Climatic Change*, 58(3): 243–249.
- Goeminne, G. (2013). Does the climate need consensus? The politics of climate change revisited. *Symploke*, 20(1–2): 147–161.
- Grundmann, R. (2006). Ozone and climate: scientific consensus and leadership. *Science, Technology, & Human Values*, 31(1): 73–101.
- Guardian (2010a). US Embassy cables: US lobbied Rajendra Pachauri to help them block appointment of Iranian scientist. *Guardian*, 6.12.2010. Available at: www.guardian.co.uk/world/us-embassy-cables-documents/168194 (Accessed: 7 February 2022).
- Guardian (2010b). US Embassy cables: Norway supports US plan to block election of Iranian climate scientist. *Guardian*, 6.12.2010. Available at: www.guardian.co.uk/world/us-embassy-cables-documents/166258 (Accessed: 7 February 2022).
- Guardian (2010c). US Embassy cables: Brazil considers US plan to block election of Iranian climate scientist. *Guardian*, 6.12.2010. Available at: www.guardian.co.uk/world/us-embassy-cables-documents/166298 (Accessed: 7 February 2022).
- Guillemot, H. (2010). Connections between climate simulations and observation in climate computer modeling. Scientist's practices and 'bottom-up epistemology' lessons. *Studies in History and Philosophy of Modern Physics*, 41: 242–252.

- Guillemot, H. (2017). The necessary and inaccessible 1.5° objective: A turning point in the relations between climate science and politics? In: Aykut, S. C., Foyer, J. and Morena, E. (eds.), *Globalising the Climate: COP21 and the Climatisation of Global Debates*. Abingdon: Routledge. pp. 39–56.
- Gulizia, C., Langendijk, G., Huang-Lachmann, J.-T., et al. (2019). Towards a more integrated role for early career researchers in the IPCC process. *Climate Change*, 159: 75–85.
- Gustafsson, K. M. (2018). Producing expertise. The Intergovernmental Science-Policy Platform on Biodiversity & Ecosystem Services' socialisation of young scholars. *Journal of Integrative Environmental Sciences*, 15(1): 21–39.
- Gustafsson, K. M. (2021). Expert organizations' institutional understanding of expertise and responsibility for the creation of the next generation of experts: comparing IPCC and IPBES. *Ecosystems and People*, 17(1): 47–56.
- Gustafsson, K. M. and Berg, M. (2020). Early-career scientists in the Intergovernmental Panel on Climate Change. A moderate or radical path towards a deliberative future? *Environmental Sociology*, 6(3): 242–253.
- Gustafsson, K. M., Berg, M., Lidskog, R. and Löfmarck, E. (2019). Intersectional boundary work in socializing new experts. The case of IPBES. *Ecosystems and People*, 15(1): 181–191.
- Gustafsson, K. M., Diaz-Reviriego, I. and Turnhout, E. (2020). Building capacity for the science-policy interface on biodiversity and ecosystem services: activities, fellows, outcomes, and neglected capacity building needs. *Earth System Governance*, 4(100050): 1–10.
- Gustafsson, K. M. and Lidskog, R. (2018a). Organizing international experts: IPBES's efforts to gain epistemic authority. *Environmental Sociology*, 4(4): 445–456.
- Gustafsson, K. M. and Lidskog, R. (2018b). Boundary organizations and environmental governance: performance, institutional design, and conceptual development. *Climate Risk Management*, 19: 1–11.
- Guston, D. H. (2001). Boundary organizations in environmental policy and science: an introduction. *Science Technology & Human Values*, 26(4): 399–408.
- Guston, D. H. (2006). On consensus and voting in science: from Asilomar to the National Toxicology Program. In: Frickel, S. and Moore, K. (eds.), *The New Political Sociology of Science: Institutions, Networks and Power*. Madison: The University of Wisconsin Press. pp. 378–404.
- Guterres, A. (2021). Secretary-General calls latest IPCC climate report 'Code red for humanity', stressing 'irrefutable' evidence of human influence. Available at: www.un.org/press/en/2021/sgsm20847.doc.htm (Accessed: 7 February 2022).
- Gutiérrez, M., Johnson, S., Kulovesi, K., Muñoz, M. and Schipper, L. (2007). *Summary of the 9th Session of IPCC Working Group III and 26th Session of the IPCC: 30 April–4 May 2007, Earth Negotiations Bulletin*, (321), International Institute for Sustainable Development – Reporting Services.
- Gutiérrez, M., Kosolapova, E., Kulovesi, K. and Yamineva, Y. (2012). *Summary of the 35th Session of the IPCC: 6–9 June 2012, Earth Negotiations Bulletin*, 12 (547), International Institute for Sustainable Development – Reporting Services.
- Haas, P. M. (1992). Epistemic communities and international-policy coordination – Introduction. *International Organization*, 46: 1–35.
- Haas, P. M. (2004). When does power listen to truth? A constructivist approach to the policy process. *Journal of European Public Policy*, 11: 569–592.
- Haas, P. M. (2017). The epistemic authority of solution-oriented global environmental assessments. *Environmental Science & Policy*, 77: 221–224.

- Haas, P. M. and McCabe, C. (2001). Amplifiers or dampeners: international institutions and social learning in the management of global environmental risks. In: The Social Learning Group (eds.), *Learning to Manage Global Environmental Risks: A Comparative History of Social Responses to Climate Change, Ozone Depletion and Acid Rain*. Cambridge, MA: MIT Press. pp. 323–348.
- Haas, P. M. and Stevens, C. (2011). Organized science, usable knowledge, and multilateral environmental governance. In: Lidskog, R. and Sundqvist, G. (eds.), *Governing the Air: The Dynamics of Science, Policy, and Citizen Interaction*. Cambridge, MA: MIT Press. pp. 125–162.
- Haikola, S., Hansson, A. and Fridahl, M. (2019). Map-makers and navigators of politicised terrain: expert understandings of epistemological uncertainty in integrated assessment modelling of bioenergy with carbon capture and storage. *Futures*, 114: 102472.
- Hajer, M. A. (2012). A media storm in the world risk society: enacting scientific authority in the IPCC controversy (2009–10). *Critical Policy Studies*, 6(4): 452–464.
- Hansen, J. E. (2007). Scientific reticence and sea level rise. *Environmental Research Letters*, 2: 024002.
- Hansson, A., Anshelm, J., Fridal, M., and Haikola, S. (2021). Boundary work and interpretations in the IPCC review process of the role of bioenergy with carbon capture and storage (BECCS) in limiting global warming to 1.5°C. *Frontiers in Climate*, 3: 643224.
- Haraway, D. (1988). Situated knowledges: the science question in feminism and the privilege of partial perspective. *Feminist Studies*, 14(3): 575–599.
- Harold, J., Lorenzoni, I., Shipley, T. F. and Coventry, K. R. (2016). Cognitive and psychological science insights to improve climate change data visualization. *Nature Climate Change*, 6(12): 1080–1089.
- Harold, J., Lorenzoni, I., Shipley, T. F. and Coventry, K. R. (2020). Communication of IPCC visuals: IPCC authors' views and assessments of visual complexity. *Climatic Change*, 158: 255–270.
- Harper, K. C. (2003). Research from the boundary layer: civilian leadership, military funding and the development of Numerical Weather Prediction (1946–55). *Social Studies of Science*, 33(5): 667–696.
- Haunschild, R., Bornmann, L. and Marx, W. (2016). Climate change research in view of bibliometrics. *PLoS One*, 11(7): e0160393.
- Hausfather, Z. and Peters, G. (2020). Emissions – the 'business as usual' story is misleading. *Nature*, 577: 618–620.
- Havstad, J. C. and Brown, M. J. (2017). Neutrality, relevance, prescription, and the IPCC. *Public Affairs Quarterly*, 31(4): 303–324.
- Hays, S. P. (1999). *Conservation and the Gospel of Efficiency: The Progressive Conservation Movement, 1890–1920*. No. 40. Pittsburgh, PA: University of Pittsburgh Press.
- Hecht, A. D. and Tirpak, D. (1995). Framework agreement on climate change: a scientific and policy history. *Climatic Change*, (29): 371–402.
- Hermansen, E. A. T., Lahn, B., Sundqvist, G. and Øye, E. (2021). Post-Paris policy relevance: lessons from the IPCC SR15 process. *Climatic Change*, 169(7): 1–18.
- Hewitson, B., Waagsaether, K., Wohland, J., Kloppers, K. and Kara, T. (2017). Climate information websites: an evolving landscape. *Wiley Interdisciplinary Reviews: Climate Change*, 8: e470.
- Heymann, M. (2010). The evolution of climate ideas and knowledge. *Wiley Interdisciplinary Reviews: Climate Change*, 1(4): 581–597.

- Heymann, M. and Hundebol, N. R. (2017). From heuristic to predictive. Making climate models into political instruments. In: Heymann, M., Gramelsberger, G. and Mahony, M. (eds.), *Culture of Prediction in Atmospheric and Climate Science. Epistemic and Cultural Shifts in Computer-Based Modelling and Simulation*. Abingdon: Routledge. pp. 120–136.
- Hill, R., Adem, Ç., Alangui, W. V., et al. (2020). Working with indigenous, local and scientific knowledge in assessments of nature and nature's linkages with people. *Current Opinion in Environmental Sustainability*, 43: 8–20.
- Hiramatsu, A., Mimura, N. and Sumi, A. (2008). A mapping of global warming research based on IPCC AR4. *Sustainability Science*, 3(2): 201–213.
- Ho-Lem, C., Zerriffi, H. and Kandlikar, M. (2011). Who participates in the Intergovernmental Panel on Climate Change and why: a quantitative assessment of the national representation of authors in the Intergovernmental Panel on Climate Change. *Global Environmental Change*, 21(4): 1308–1317.
- Hoppe, I. and Rödder, S. (2019). Speaking with one voice for climate science – climate researchers' opinion on the consensus policy of the IPCC. *Journal of Science Communication*, 18(03): a04.
- Hoppe, R. (1999). Policy analysis, science and politics: from 'speaking truth to power' to 'making sense together'. *Science and Public Policy*, 26: 201–210.
- Hoppe, R., Wesselink, A. and Cairns, R. (2013). Lost in the problem: the role of boundary organisations in the governance of climate change. *Wiley Interdisciplinary Reviews: Climate Change*, 4: 283–300.
- Houghton, J. T. (2007). An overview of the intergovernmental panel on climate change (IPCC) and its process of science assessment. In: Hester, R. E. and Harrison, R. M. (eds.), *Global Environmental Change*. London: Royal Society of Chemistry. pp. 1–20.
- Houghton, J. T. (2008). Madrid 1995: Diagnosing climate change. *Nature*, 455(7214): 737–738.
- House of Commons (2010). *The Disclosure of Climate Data from the Climatic Research Unit at the University of East Anglia*. London: Science and Technology Committee. Available at: <https://publications.parliament.uk/pa/cm200910/cmselect/cmsctech/387/38703.htm>
- Hughes, H. R. (2012). *Practices of Power and Knowledge in the Intergovernmental Panel on Climate Change (IPCC)*. Unpublished PhD thesis. Department of International Politics: Aberystwyth University, Wales.
- Hughes, H. R. (2015). Bourdieu and the IPCC's symbolic power. *Global Environmental Politics*, 15: 85–104.
- Hughes, H. R. and Paterson, M. (2017). Narrowing the climate field: the symbolic power of authors in the IPCC's assessment of mitigation. *Review of Policy Research*, 34(6): 744–766.
- Hughes, H. R. and Vadrot, A. B. M. (2019). IPBES and the struggle over biocultural diversity. *Global Environmental Politics*, 19(2): 14–37.
- Hulme, M. (2009). *Why We Disagree about Climate Change: Understanding Controversy, Inaction and Opportunity*. Cambridge: Cambridge University Press.
- Hulme, M. (2010). Problems with making and governing global kinds of knowledge. *Global Environmental Change*, 20(4): 558–564.
- Hulme, M. (2011a). Reducing the future to climate: a story of climate determinism and reductionism. *Osiris*, 26(1): 245–266.
- Hulme, M. (2011b). Meet the humanities. *Nature Climate Change*, 1(7): 177–179.

- Hulme, M. (2013). Lessons from the IPCC: do scientific assessments need to be consensual to be authoritative? In: Doubleday, R. and Wilsdon, J. (eds.), *Future Directions for Scientific Advice in Whitehall*. Cambridge: Centre for Science and Policy. pp. 142–147.
- Hulme, M. (2016). 1.5°C and climate research after the Paris Agreement. *Nature Climate Change*, 6(3): 222–224.
- Hulme, M. (2018). ‘Gaps’ in climate change knowledge: Do they exist? Can they be filled? *Environmental Humanities*, 10(1): 330–337.
- Hulme, M. (2019). Climate emergency politics is dangerous. *Issues in Science and Technology*, 36(1): 23–25.
- Hulme, M., Lidskog, R., White, J. M. and Standing, A. (2020). Social scientific knowledge in times of crisis: what climate change can learn from coronavirus (and vice versa)? *Wiley Interdisciplinary Reviews: Climate Change*, 11: e656.
- Hulme, M. and Mahony, M. (2010). Climate change: what do we know about the IPCC? *Progress in Physical Geography*, 34(5): 705–718.
- Hulme, M., Zorita, E., Stocker T. F., Price, J., and Christy J. R. (2010). IPCC: cherish it, tweak it or scrap it? *Nature*, (463): 730–732.
- IAC [InterAcademy Council] (2010). *Climate Change Assessments: Review of the Processes and Procedures of the IPCC*. Amsterdam, Netherlands. Available at: https://archive.ipcc.ch/pdf/IAC_report/IAC%20Report.pdf (Accessed: 15 January 2022).
- IAMC (2017). IAMC Website, Scenario Working Group presentation. Available at: <https://web.archive.org/web/20160819202205/http://www.globalchange.umd.edu/iamc/scientific-working-groups/scenarios/> (Accessed: 8 February 2022).
- IEA [International Energy Agency] (2021). *World Energy Outlook 2021*. www.iea.org/reports/world-energy-outlook-2021
- IISD (2014). Summary of the 10th Session of Working Group II of the Intergovernmental Panel on Climate Change (IPCC) and Thirty-Eighth Session of the IPCC: 25-29 March 2014. *Earth Negotiations Bulletin*, 12(596): 1–20.
- Inuit Circumpolar Council (2013). *Application of Indigenous Knowledge in the Arctic Council*. Available at: <https://iccalaska.org/wp-icc/wp-content/uploads/2016/03/Application-of-IK-in-the-Arctic-Council.pdf> (Accessed: 8 February 2022).
- Inuit Circumpolar Council (2021). *Ethical and Equitable Engagement Synthesis Report*. Available at: www.inuitcircumpolar.com/project/icc-ethical-and-equitable-engagement-synthesis-report/ (Accessed: 8 February 2022).
- Inuit Tapiriit Kanatami (2018). *National Inuit Strategy on Research*. Ottawa. Available at: www.itk.ca (Accessed: 11 August 2020).
- IPCC (1988). *Report of the First Session of the WMO/UNEP IPCC, 9-11 November 1988*. Geneva.
- IPCC (1990a). *Climate Change: The IPCC Scientific Assessment*. Houghton, J. T., Jenkins, G. J. and Ephraums, J. J. (eds.). Cambridge: Cambridge University Press.
- IPCC (1990b). *Climate Change: The IPCC Response Strategies*. Cambridge: Cambridge University Press.
- IPCC (1991). IPCC-7. *Report of the 5th Session of the WMO/UNEP Intergovernmental Panel on Climate Change, (Geneva, 13–15 March 1991)*. pp. 22–23.
- IPCC (1996). *Climate Change 1995 – The Science of Climate Change: Contribution of Working Group I to the Second Assessment Report of the Intergovernmental Panel on Climate Change*. Houghton, J. T., Meiro Filho, L. G., Callendar, B. A., et al. (eds.). Cambridge: Cambridge University Press.
- IPCC (2003). Proposal for handling emissions scenarios related issues in AR4. Annex 5 in: *Report of the 21st Session of the IPCC (Vienna, 3 and 6–7 November 2003)*.

- IPCC (2005). *Guidance Notes for Lead Authors of the IPCC Fourth Assessment Report on Addressing Uncertainties*. Geneva: IPCC. Available at: www.ipcc.ch/site/assets/uploads/2018/02/ar4-uncertaintyguidancenote-1.pdf (Access 8 February 2022).
- IPCC (2006a). *Policy and Process for Admitting Observer Organizations* (adopted in 2006 and last amended in 2012). Geneva: IPCC. Available at: www.ipcc.ch/site/assets/uploads/2018/09/ipcc-principles-observer-org-1.pdf (Accessed: 25 January 2022).
- IPCC (2006b). Further work of the IPCC on emission scenarios. Annex 4 in: *Report of the 25th Session of the IPCC (Port Louis, Mauritius, 26-28 April 2006)*. Available at: www.ipcc.ch/meeting-doc/25th-session-of-the-ipcc/
- IPCC (2009a). *Use of Funds from The Nobel Peace Prize*. IPCC-XXX/Doc.8 in: *Report of the 30th Session of the IPCC*. Antalya, Turkey, 21–23 April 2009. Geneva: IPCC.
- IPCC (2009b). Improving Participation of Developing/EIT Countries in the IPCC: Summary and Recommendations. IPCC-XXXI/Doc.11 in: *Report of the 31st Session of the IPCC*. Geneva: IPCC. Available at: www.ipcc.ch/meeting-doc/ipcc-31-and-plenary-sessions-of-the-three-ipcc-working-groups/ (Accessed: 8 February 2022).
- IPCC (2009c). *Report of the 30th Session of the IPCC (Antalya, Turkey, 21–23 April 2009)*, Geneva: IPCC. Available at: www.ipcc.ch/site/assets/uploads/2018/05/final_report_30.pdf (Accessed: 25 January 2022).
- IPCC (2011). *Decisions Taken with Respect to the Review of IPCC Processes and Procedures Communications Strategy (Report of the 33rd Session of the IPCC, 10–13 May 2011, Abu Dhabi)*. Geneva: IPCC. Available at: www.ipcc.ch/site/assets/uploads/2018/03/doc13_p33_review_tg_proposal_communications_strategy.pdf (Accessed: 30 July 2021).
- IPCC (2012a). Progress Report and Planning for the Next Round of the Scholarship Programme. IPCC-XXXV/Doc. 8 in: *Report of the 35th Session of the IPCC. Geneva, Switzerland, June 6-9, 2012*. Geneva: IPCC.
- IPCC (2012b). *Workshop Report of the IPCC Workshop on Socio-economic Scenarios*. IPCC Working Group III Technical Support Unit, Potsdam Institute for Climate Impact and Research, Potsdam Germany. Available at: www.ipcc.ch/publication/ipcc-workshop-on-socio-economic-scenarios/ (Accessed: 8 February 2022).
- IPCC (2013a). *Procedures for the Preparation, Review, Acceptance, Adoption, Approval and Publication of IPCC Reports*. Appendix A to the Principles Governing IPCC Work. Last amended 2013. Geneva: IPCC. Available at: www.ipcc.ch/site/assets/uploads/2018/09/ipcc-principles-appendix-a-final.pdf (Accessed: 6 February 2022).
- IPCC (2013b). *About the IPCC: Organization*. (Updated). Geneva: IPCC. Available at: www.ipcc.ch/organization/organization.shtml#UcLdOvnqmSo (Accessed: 8 February 2022).
- IPCC (2014a). *Climate Change 2014: Mitigation of Climate Change. Contribution of Working Group III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*. Edenhofer, O., Pichs-Madrugada, R., Sokona, Y., et al. (eds.). Cambridge: Cambridge University Press.
- IPCC (2014b). *Climate Change 2014: Synthesis Report. Contribution of Working Groups I, II and III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*. Pachauri, R. K. and Meyer, L. A. (eds.). Geneva: IPCC. www.ipcc.ch/report/ar5/syr/
- IPCC (2015a). Assessing Transformation Pathways. Chapter 6 in: *Climate Change 2014: Mitigation of Climate Change. Contribution of Working Group III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*. Edenhofer,

- O., Pichs-Madrigada, R., Sokona, Y., et al. (eds.). Cambridge: Cambridge University Press. pp. 413–510. Available at: <http://doi.org/10.1017/CBO9781107415416> (Accessed: 30 December 2020).
- IPCC (2015b). IPCC Scholarship Programme. IPCC-XLII/INF. 10 in *Report of the 42nd Session of the IPCC*. Dubrovnik, Croatia, 5–8 October 2015. Geneva: IPCC.
- IPCC (2016a). IPCC Scholarship Programme. IPCC-XLIV/Doc. 10 in *Report of the 44th Session of the IPCC*. Bangkok, Thailand, 17–20 October 2016. Geneva: IPCC.
- IPCC (2016b). *Meeting Report of the Intergovernmental Panel on Climate Change Expert Meeting on Communication*. Lynn, J., Araya, M., Christophersen, Ø., et al. (eds.). Geneva: IPCC/WMO.
- IPCC (2016c). *Review of the IPCC Communication Strategy*. IPCC-XLIV/Doc.6. 44th Session of the IPCC, Bangkok, Thailand. Available at: www.ipcc.ch/apps/eventmanager/documents/40/200920160710-Doc.6_ReviewComsStrat.pdf (Accessed: 12 February 2022).
- IPCC (2016d). *Expert Meeting on the Future of the Task Group on Data and Scenario Support for Impacts and Climate Analysis (TGICA)*. Shongwe, M., Tall, A., Wratt, D., et al. (eds.). WMO. Geneva: Switzerland. Available at: https://archive.ipcc.ch/pdf/supporting-material/EMR_TGICA_Future.pdf (Accessed: 6 November 2021).
- IPCC (2017a). *Report of the 46th Session of the IPCC*. Montreal, Canada, 6–10 September, 2017. Geneva: IPCC. Available at: www.ipcc.ch/meeting-doc/ipcc-46/ (Accessed: 22 February 2022).
- IPCC (2017b). *Meeting Report of the Intergovernmental Panel on Climate Change Expert Meeting on Mitigation, Sustainability and Climate Stabilization Scenarios*. London: IPCC Working Group III Technical Support Unit, Imperial College London.
- IPCC (2017c). *Working Group I Contribution to the IPCC Sixth Assessment Report (AR6) Background information*. IPCC Working Group I – 13th Session. Montreal, 7–8 September 2017. Available at: www.ipcc.ch/site/assets/uploads/2018/04/040820170312-WGI_inf1_background_information.pdf (Accessed: 6 November 2021).
- IPCC (2017d). *Chapter Outline of the Working Group II Contribution to the IPCC Sixth Assessment Report (AR6)*. Decision. As Adopted by the Panel at the 46th Session of the IPCC. Montreal, Canada, 6–10 September 2017. Available at: www.ipcc.ch/site/assets/uploads/2018/03/AR6_WGII_outlines_P46.pdf (Accessed: 6 November 2021).
- IPCC (2018a). *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*. Masson-Delmotte, V., Zhai, P., Pörtner, H.-O., et al. (eds.). Geneva: IPCC. Available at: www.ipcc.ch/sr15/ (Accessed: 12 February 2022).
- IPCC (2018b). *IPCC Factsheet: How Does the IPCC Select its Authors?* Geneva: IPCC. Available at: www.ipcc.ch/site/assets/uploads/2018/02/FS_select_authors.pdf (Accessed: 29 October 2021).
- IPCC (2018c). *Report of the 48th Session of the IPCC*. Incheon, Republic of Korea, 1–5 October 2018. Geneva: IPCC. Available at: www.ipcc.ch/site/assets/uploads/2018/12/final_report_p48.pdf (Accessed: 1 March 2022).
- IPCC (2018d). *Report of the 47th Session of the IPCC*. Paris, France, 13–16 March 2018. Geneva: IPCC. Available at: www.ipcc.ch/event/47th-session-of-the-ipcc/ (Accessed: 8 February 2022).
- IPCC (2018e). *Proposed Terms of Reference for the Task Group on the Organization of the Future Work of the IPCC in Light of the Global Stocktake*. Geneva: IPCC. Available at: <https://archive.ipcc.ch/organization/gst.shtml> (Accessed: 25 January 2022).

- IPCC (2018f). *Report by the Ad Hoc Task Force on the Future of the Task Group on Data and Scenario Support for Impact and Climate Analysis*. Prepared for: Forty-Seventh Session of the IPCC, Paris, France, 13–16 March 2018. IPCC-XLVII/Doc. 9. Available at: <https://archive.ipcc.ch/apps/eventmanager/documents/49/020320180441-Doc.%209-ATF-TGICA.pdf> (Accessed: 6 November 2021).
- IPCC (2018g). *Expert Meeting of the Intergovernmental Panel on Climate Change on Assessing Climate Information for Regions*. Moufouma-Okia, W., Masson-Delmotte, V., Pörtner, H.-O., et al. (eds.), IPCC Working Group I Technical Support Unit, Université Paris Saclay, Saint Aubin: France. Available at: https://archive.ipcc.ch/pdf/supporting-material/AR6_WGI_EM_Regions.pdf (Accessed: 6 November 2021).
- IPCC (2019a). Information for participants. In: *Report of the 50th Session of the IPCC. Geneva, Switzerland WMO headquarters August 2-6, 2019*. Geneva: IPCC. Available at: www.ipcc.ch/site/assets/uploads/2019/06/IPCC-50.-INF-NOTE-Geneva_V5.pdf (Accessed: 15 January 2022).
- IPCC (2019b). *Report from the Task Group on Gender*. Geneva: IPCC. Available at: www.ipcc.ch/site/assets/uploads/2019/01/110520190810-Doc.-10-Rev.1TG-Gender.pdf (Accessed: 29 October 2021).
- IPCC (2019c). *Report of the 49th Session of the IPCC*. Kyoto, Japan, 8–12 May 2019. Geneva: IPCC.
- IPCC (2019d). IPCC Scholarship Programme. IPCC-XLIX/Doc. 9, Rev.1 In: *Report of the 49th Session of the IPCC*. Kyoto, Japan, 8–12 May 2019. Geneva: IPCC.
- IPCC (2019e). Progress report of the task group on the organization of the future work of the IPCC in light of the global stocktake. IPCC-XLIX/INF. 6, Agenda Item: 6.2 in: *Report of the 49th Session of the IPCC*. Geneva: IPCC. Available at: www.ipcc.ch/site/assets/uploads/2019/01/100420191037-INF6Stocktake.pdf (Accessed: 25 January 2022).
- IPCC (2019f). Technical Summary. In: Pörtner, H. O., Roberts, D. C., Masson-Delmotte, V., et al., *IPCC Special Report on the Ocean and Cryosphere in a Changing Climate*. Cambridge: Cambridge University Press.
- IPCC (2019g). *Climate Change and Land: An IPCC Special Report on Climate Change, Desertification, Land Degradation, Sustainable Land Management, Food Security, and Greenhouse Gas Fluxes in Terrestrial Ecosystems*. Shukla, P. R., Skea, J., Calvo Buendia, E., et al. (eds.). Cambridge: Cambridge University Press.
- IPCC (2020a). *What Is an Expert Reviewer of IPCC Reports?* Geneva: IPCC. Available at: www.ipcc.ch/2020/12/04/what-is-an-expert-reviewer-of-ipcc-reports/ (Accessed: 5 January 2022).
- IPCC (2020b). *The IPCC's First Virtual Lead Author Meeting: An Evaluation by the Technical Support Unit of Working Group III of the Intergovernmental Panel on Climate Change*. Available at: www.ipcc.ch/site/assets/uploads/2020/07/IPCC-WG-III-TSU-Report-Evaluating_the_IPCCs_first_Virtual_Lead_Author_Meeting.pdf (Accessed: 15 January 2022).
- IPCC (2021a). *Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change*. Masson-Delmotte, V., Zhai, P., Pirani, A., et al. (eds.). Cambridge: Cambridge University Press.
- IPCC (2021b). *About the IPCC*. Geneva: IPCC. Available at: www.ipcc.ch/about/ (Accessed: 22 June 2021).
- IPCC (2021c). *About the Scholarship Programme*. Geneva: IPCC. Available at: www.ipcc.ch/about/scholarship/ (Accessed: 30 December 2021).

- IPCC (2021d). *IPCC WGI Interactive Atlas*. Geneva: IPCC. Available at: <https://interactive-atlas.ipcc.ch/> (Accessed: 8 February 2022).
- IPCC (2021e). *Review of the IPCC Communications Strategy*. IPCC-LIII(bis)/INF. 12 in: *Report of the 53rd Session of the IPCC*. Electronic Session, 22–26 March 2021. Geneva: IPCC. Available at: www.ipcc.ch/meeting-doc/ipcc-53-bis/ (Accessed: 8 February 2022).
- IPCC (2021f). IPCC Communications Strategy Update. IPCC-LIII(bis)/INF. 13 in: *Report of the 53rd Session of the IPCC*. Electronic Session, 22–26 March 2021. Geneva: IPCC. Available at: www.ipcc.ch/meeting-doc/ipcc-53-bis/ (Accessed: 8 February 2022).
- IPCC (2022). Summary for Policymakers. In: Pörtner, H. O., et al. (eds.), *Climate Change 2022: Impacts, Adaptation, and Vulnerability*. Cambridge: Cambridge University Press. pp. 1–35.
- IPCC (n.d.(a)). *How Does the IPCC Work?* Geneva: IPCC. Available at: https://archive.ipcc.ch/organization/organization_structure.shtml (Accessed: 15 January 2022).
- IPCC (n.d.(b)). *IPCC Focal Points*. Geneva: IPCC. Available at: www.ipcc.ch/apps/contact/interface/focalpoints.php (Accessed: 19 January 2022).
- Jabbour, J. and Flachsland, C. (2017). 40 years of global environmental assessments: a retrospective analysis. *Environmental Science & Policy*, 77: 193–202.
- Janzwood, S. (2020). Confident, likely, or both? The implementation of the uncertainty language framework in IPCC Special Reports. *Climatic Change*, 162(3): 1655–1675.
- Jasanoff, S. (1987). Contested boundaries in policy-relevant science. *Social Studies of Science*, 17: 195–230.
- Jasanoff, S. (1990). *The Fifth Branch: Science Advisers as Policymakers*. Cambridge, MA: Harvard University Press.
- Jasanoff, S. (ed.) (2004). *States of Knowledge: Co-production of Science and the Social Order*. London: Routledge.
- Jasanoff, S. (2005). *Designs on Nature: Science and Democracy in Europe and the United States*. Princeton, NJ: Princeton University Press.
- Jasanoff, S. (2010a). Testing time for climate science. *Science*, 328(5979): 695–696.
- Jasanoff, S. (2010b). A new climate for society. *Theory, Culture & Society*, 27(2–3): 233–253.
- Jasanoff, S. (2011a). Constitutional moments in governing science and technology. *Science and Engineering Ethics*, 17: 621–638. <https://doi.org/10.1007/s11948-011-9302-2>.
- Jasanoff, S. (2011b). Cosmopolitan knowledge: climate science and global civic epistemology. In: Dryzek, J., Norgaard, R. B. and Schlosberg, D. (eds.), *Oxford Handbook of Climate Change and Society*. Oxford: Oxford University Press. pp. 129–143.
- Jasanoff, S. (2019). Controversy studies. In: Ritzer, G. and Rojek, C. (eds.), *The Blackwell Encyclopedia of Sociology*. Oxford: Blackwell Publishing.
- Jasanoff, S. and Kim, S.-H. (eds.) (2015). *Dreamscapes of Modernity: Sociotechnical Imaginaries and the Fabrication of Power*. Chicago, IL: University of Chicago Press.
- Johnson, J. T., Howitt, R., Cajete, G., et al. (2016). Weaving Indigenous and sustainability sciences to diversify our methods. *Sustainability Science*, 11: 1–11.
- Jomisko, R. L. (2013). Harry's code: an interview with Harry Collins. *Nordic Journal of Science and Technology Studies*, 1(1): 25–29.
- Jordan, A., Huitema, D., Van Asselt, H. and Forster, J. (eds.) (2018). *Governing Climate Change: Polycentricity in Action?* Cambridge: Cambridge University Press.
- Kanerva, J. and Krizsán, A. (2021). Discouraging climate action through implicit argumentation: an analysis of linguistic polyphony in the Summary for Policymakers by the Intergovernmental Panel on Climate Change. *Discourse & Communication*, 15(6): 609–628.

- Kear, M. (2016). The new prometheans: technological optimism in climate change mitigation modelling. *Environmental Values*, 25(1): 7–28.
- Keohane, R. O. (2015). The global politics of climate change: challenge for political science. *PS: Political Science & Politics*, 48(1): 19–26.
- Keppo, I., Butnar, I., Bauer, N., et al. (2021). Exploring the possibility space: taking stock of the diverse capabilities and gaps in integrated assessment models. *Environmental Research Letters*, 16: 053006.
- Knol, A. B., Slottje, P., van der Sluijs, J. P., et al. (2010). The use of expert elicitation in environmental health impact assessment: a seven step procedure. *Environmental Health*, 9(19):1–16.
- Knorr Cetina, K. (1999). *Epistemic Cultures: How the Science Makes Knowledge*. Cambridge: Harvard University Press.
- Knutti, R., Masson, D. and Gettelman, A. (2013). Climate model genealogy: generation CMIP5 and how we got there. *Geophysical Research Letters*, 40(6): 1194–1199.
- Knutti, R., Rogelj, J., Sedláček, J. and Fischer, E. M. (2016). A scientific critique of the two-degree climate change target. *Nature Geoscience*, 9(1): 13–18.
- Kouw, M. and Petersen, A. (2018). Diplomacy in action: Latourian politics and the Intergovernmental Panel on Climate Change. *Science and Technology Studies*, 31(1): 52–68.
- Kovach, M. (2009). *Indigenous Methodologies: Characteristics, Conversations and Contexts*. Toronto: University of Toronto Press.
- Kowarsch, M., Garardm, J., Rioussset, P., et al. (2016). Scientific assessments to facilitate deliberative policy learning. *Palgrave Communications*, 2: 16092.
- Kowarsch, M. and Jabbour, J. (2017). Solution-oriented global environmental assessments: opportunities and challenges. *Environmental Science & Policy*, 77: 187–192.
- Kowarsch, M., Jabbour, J., Flaschland, C., et al. (2017). A road map for global environmental assessments. *Nature Climate Change*, 7(6): 379–382.
- Kunelius, R., Eide, E., Tegelberg, M. and Yagodin, D. (eds.) (2017). *Media and Global Climate Knowledge: Journalism and the IPCC*. New York: Palgrave.
- Kuramochi, T., Roelfsema, M., Hasu, A., et al. (2020). Beyond national climate action: the impact of region, city, and business commitments on global greenhouse gas emissions. *Climate Policy*, 20(3): 275–291.
- Lahn, B. (2018). In the light of equity and science: scientific expertise and climate justice after Paris. *International Environmental Agreements: Politics, Law and Economics*, 18: 29–43.
- Lahn, B. (2021). Changing climate change: the carbon budget and the modifying-work of the IPCC. *Social Studies of Science*, 51(1): 3–27.
- Lahn, B. and Sundqvist, G. (2017). Science as a ‘fixed point’? Quantification and boundary objects in international climate politics. *Environmental Science & Policy*, 67: 8–15.
- Lahsen, M. (1999). The detection and attribution of conspiracies: the controversy over Chapter 8. Chapter 5 in: Marcus, G. E. (ed.), *Paranoia within Reason: A Casebook on Conspiracy as Explanation*. Chicago: University of Chicago Press. pp. 111–136.
- Lahsen, M. (2009). A science–policy interface in the global south: the politics of carbon sinks and science in Brazil. *Climatic Change*, 97(3): 339–372.
- Lahsen, M. (2016). Trust through participation? Problems of knowledge in climate decision making. In: Pettinger, M. E. (ed.), *The Social Construction of Climate Change: Power, Knowledge, Norms, Discourses*. Abingdon: Routledge. pp. 197–220.
- Lahsen, M., Couto, G. D. and Lorenzoni, I. (2020). When climate change is not blamed: the politics of disaster attribution in international perspective. *Climatic Change*, 158: 213–233.

- Laidler, G. J., Hirose, T., Kapfer, M., Ikummaq, T., Joamie, E., and Elee, P. (2011). Evaluating the Floe Edge Service: how well can SAR imagery address Inuit community concerns around sea ice change and travel safety? *The Canadian Geographer / Le Géographe Canadien*, 55(1): 91–107.
- Latour, B. (1993). *We Have Never Been Modern*. New York: Harvester/Wheatsheaf.
- Latour, B. and Woolgar, S. (1979). *Laboratory Life*. Princeton: Princeton University Press.
- Lawler, A. (2002). Pachauri defeats Watson in new chapter for global panel. *Science*, 296 (5568): 632.
- Leclerc, O. (2009). Les règles de production des énoncés au sein du Groupe d'experts intergouvernemental sur l'évolution du climat. In: R. Encinas de Muñagorri (ed.), *Expertise et Gouvernance du Changement Climatique*. Paris: LGDJ. pp. 59–92.
- Lee, H. (2015). Turning the focus to solutions. *Science*, 350: 1007.
- Leggett, J., Pepper, W. J. and Wart, R. J. (1992). Emissions scenarios for IPCC: an update. In: Houghton, J. T., Callander, B. A. and Varney, S. K. (eds.), *Climate Change 1992. The Supplementary Report to the IPCC Scientific Assessment*. Cambridge: Cambridge University Press.
- Lenhard, J. and Winsberg, E. (2010). Holism, entrenchment, and the future of climate model pluralism. *Studies in History and Philosophy of Science Part B: Studies in History and Philosophy of Modern Physics*, 41(3): 253–262.
- Lidskog, R. and Sundqvist, G. (2015). When does science matter? International relations meets science and technology studies. *Global Environmental Politics*, 15(1): 1–20.
- Lim, M., Lynch, A. J., Fernandez-Llamazares, A., et al. (2017). Early-career experts essential for planetary sustainability. *Current Opinion Environmental Sustainability*, 29: 151e157.
- Limoges, C. (1993). Expert knowledge and decision-making in controversy contexts. *Public Understanding of Science*, 2: 417–426.
- Linnér, B.-O. and Wibeck, V. (2019). *Sustainability Transformations: Agents and Drivers Across Societies*. Cambridge: Cambridge University Press.
- Liverman, D., von Hedemann, N., Nying'uro, P., et al. (2022). Survey of gender bias in the IPCC. *Nature*, 602: 30–32.
- Livingstone, D. (2003). *Putting Science in Its Place: Geographies of Scientific Knowledge*. Chicago: The University of Chicago Press.
- Livingston J. E., Lövbrand, E. and Alkan Olsson, J. (2018). From climates multiple to climate singular: maintaining policy-relevance in the IPCC synthesis report. *Environmental Science & Policy*, 90: 83–90.
- Livingston, J. E. and Rummukainen, M. (2020). Taking science by surprise: the knowledge politics of the IPCC special report on 1.5 degrees. *Environmental Science & Policy*, 112: 10–16.
- Loreau, M., Oteng-Yeboah, A., Orroyo, M. T. K., et al. (2006). Diversity without representation. *Nature*, 442(7100): 245–246.
- Lövbrand, E. (2004). Bridging political expectations and scientific limitations in climate risk management – on the uncertain effects of international carbon sink policies. *Climatic Change*, 67(2–3): 449–460.
- Lövbrand, E. (2009). Revisiting the politics of expertise in light of the Kyoto negotiations on land use change and forestry. *Forest Policy and Economics*, 11(5–6): 404–412.
- Lövbrand, E., Beck, S., Chilvers, J., et al. (2015). Who speaks for the future of Earth? How critical social science can extend the conversation on the Anthropocene. *Global Environmental Change*, 32: 211–218.

- Low, S. and Schäfer, S. (2020). Is bio-energy carbon capture and storage (BECCS) feasible? The contested authority of integrated assessment modeling. *Energy Research and Social Science*, 60: 101326.
- Lunde, L. (1991). *Science or Politics in the Global Greenhouse? The Development Towards Scientific Consensus on Climate Change*. Lysaker: Fridtjof Nansen Institute.
- Lynas, M. (2011). Conflicted roles over renewables. *Nature Climate Change*, 1(8): 228–229.
- Lynn, J. and Peeva, N. (2021). Communications in the IPCC's Sixth Assessment Report cycle. *Climatic Change*, 169: 18.
- Maas, T. Y., Montana, J., van der Hel, S., et al. (2021). Effectively empowering: a different look at bolstering the effectiveness of global environmental assessments. *Environmental Science & Policy*, 123: 210–219.
- Mach, K. J. and Field, C. B. (2017). Toward the next generation of assessment. *Annual Review of Environment and Resources*, 42: 569–597.
- Mach, K. J., Mastrandrea, M. D., Freeman, P. T., et al. (2017). Unleashing expert judgment in assessment. *Global Environmental Change*, 44: 1–14.
- MacKenzie, D. A. (2006). *An Engine, Not a Camera: How Financial Models Shape Markets*. Cambridge, MA: MIT Press.
- MacKenzie, D. (2009). Making things the same: gases, emission rights and the politics of carbon markets. *Accounting, Organizations and Society*, 34(3–4): 440–455.
- Mahony, M. (2013). Boundary spaces: science, politics and the epistemic geographies of climate change in Copenhagen, 2009. *Geoforum*, 49: 29–39.
- Mahony, M. (2014a). The IPCC and the geographies of credibility. *History of Meteorology*, 6: 95–112.
- Mahony, M. (2014b). The predictive state: science, territory and the future of the Indian climate. *Social Studies of Science*, 44(1): 109–133.
- Mahony, M. (2015). Climate change and the geographies of objectivity: the case of the IPCC's burning embers diagram. *Transactions of the Institute of British Geographers*, 40: 153–167.
- Mahony, M. and Hulme, M. (2018). Epistemic geographies of climate change: science, space and politics. *Progress in Human Geography*, 42(3): 395–424.
- Maldonado, J., Bennett, T. M. B., Chief, K., et al. (2016). Engagement with indigenous peoples and honoring traditional knowledge systems. *Climatic Change*, 135: 111–126.
- Malone, E. L. and Rayner, S. (2001). Role of the research standpoint in integrating global-scale and local-scale research. *Climate Research*, 19(2): 173–178.
- Manning, M. R., Petit, M., Easterling, D., et al. (2004). *IPCC Workshop on Describing Scientific Uncertainties in Climate Change to Support Analysis of Risk and of Options*. Geneva: IPCC. Available at: <https://archive.ipcc.ch/pdf/supporting-material/ipcc-workshop-2004-may.pdf> (Accessed: 12 February 2022).
- Marres, N. (2018). Why we can't have our facts back. *Engaging Science, Technology, and Society*, 4: 423–443.
- Martin, B. (2014). *The Controversy Manual*. Sparsnäs: Irene Publishing.
- Martinez, J. (2020). The great smog of London. *Encyclopaedia Britannica*. Available at: www.britannica.com/event/Great-Smog-of-London (Accessed: 16 June 2021).
- Masood, E. and Ochert, A. (1995). UN climate change report turns up the heat. *Nature*, 378: 119.
- Mastrandrea, M. D., Field, C. B., Stocker, T. F., et al. (2010). *Guidance Note for Lead Authors of the IPCC Fifth Assessment Report on Consistent Treatment of Uncertainties*. Geneva: IPCC. Available at: www.ipcc.ch/site/assets/uploads/2017/08/AR5_Uncertainty_Guidance_Note.pdf (Accessed: 12 February 2022).

- Mastrandrea, M. D. and Mach, K. J. (2011). Treatment of uncertainties in IPCC Assessment Reports: past approaches and considerations for the Fifth Assessment Report. *Climatic Change*, 108(4): 659–673.
- Mastrandrea, M. D., Mach, K. J., Plattner, G. K., et al. (2011). The IPCC AR5 guidance note on consistent treatment of uncertainties: a common approach across the working groups. *Climatic Change*, 108(4): 675–691.
- McConnell, F. (2019). Rethinking the geographies of diplomacy. *Diplomatica*, 1: 46–55.
- McCright, A. M. and Dunlap, R. E. (2010). Anti-reflexivity the American conservative movement's success in undermining climate science and policy. *Theory Culture & Society*, 27: 100–133.
- McIntyre, S. and McKittrick, R. (2005). The M&M critique of the MBH98 Northern Hemisphere climate index: update and implications. *Energy & Environment*, 16(1): 69–100.
- McMahon, R., Stauffacher, M. and Knutti, R. (2015). The unseen uncertainties in climate change: reviewing comprehension of an IPCC scenario graph. *Climatic Change*, 133(2): 141–154.
- McMahon, R., Stauffacher, M. and Knutti, R. (2016). The scientific veneer of IPCC visuals. *Climatic Change*, 138 (3–4): 369–381.
- Medin, D. L. and Lee, C. D. (2012). Presidential column: diversity makes better science. APS. Association for Psychological Science. Available at: www.psychologicalscience.org/index.php/publications/observer/2012/may-june-12/diversity-makes-better-science.html (Accessed: 29 October 2021).
- Merton, R. K. (1948). The self-fulfilling prophecy. *The Antioch Review*, 8(2): 193–210.
- Miguel, J., Mahony, M., and Monteiro, M. (2019). A 'geopolítica infraestrutural' do conhecimento climático: o Modelo Brasileiro do Sistema Terrestre e a divisão Norte-Sul do conhecimento. *Sociologias*, 21: 44–75.
- Miller, B. (2013). When is a consensus knowledge-based? Distinguishing shared knowledge from mere agreement. *Synthese*, 190(7): 1293–1316.
- Miller, C. A. (2001a). Scientific internationalism in American foreign policy: The case of meteorology. In: Miller, C. A. and Edwards, P. N. (eds.), *Changing the Atmosphere: Expert Knowledge and Environmental Governance*. Cambridge, MA: MIT Press. pp. 167–218.
- Miller, C. A. (2001b). Hybrid management: boundary organizations, science policy, and environmental governance in the climate regime. *Science, Technology, & Human Values*, 4(26): 478–500.
- Miller, C. A. (2004). Climate science and the making of a global political order. In: Jasanoff, S. (ed.), *States of Knowledge: The Co-production of Science and Social Order*. London: Routledge. pp. 46–66.
- Miller, C. A. (2008). Civic epistemologies: constituting knowledge and order in political communities. *Sociology Compass*, 2(6): 1896–1919.
- Miller, C. A. (2009). Epistemic constitutionalism in international governance: the case of climate change. In: Heazle, M., Griffiths, M. and Conley, T. (eds.), *Foreign Policy Challenges in the 21st Century*. Cheltenham: Edward Elgar. pp. 141–163.
- Miller, C. A. (2015a). Globalizing security: science and the transformation of contemporary political imagination. In: Jasanoff, S. and Kim, S. H. (eds.), *Dreamscapes of Modernity*. Chicago: University of Chicago Press. pp. 277–299.
- Miller, C. A. (2015b). Knowledge and democracy: the epistemics of self-governance. In: Hilgartner, S., Miller, C. and Hagendijk, R. (eds.), *Science and Democracy*. London: Routledge. pp. 216–237.

- Miller, C. A. and Edwards, P. N. (eds.) (2001). *Changing the Atmosphere: Expert Knowledge and Environmental Governance*. Cambridge, MA: MIT Press.
- Miller, C. A. and Muñoz-Erickson, T. A. (2018). *Designing Knowledge*. Tempe: Consortium for Science, Policy & Outcomes.
- Minx, J. C., Callaghan, M., Lamb, W. F., Garard, J., and Edenhofer, O. (2017). Learning about climate change solutions in the IPCC and beyond. *Environmental Science & Policy*, 77: 252–259.
- Monteiro, M., Seixas, S., and Vieira, S. (2014). The politics of Amazonian deforestation: environmental policy and climate change knowledge. *Wiley Interdisciplinary Reviews: Climate Change*, 5: 689–701.
- Moore, A. (2017). *Critical Elitism*. Cambridge: Cambridge University Press.
- Moran, G. (1998). *Silencing Scientists and Scholars in Other Fields: Power, Paradigm Controls, Peer Review, and Scholarly Communication*. Greenwich, CT: Ablex Publishing.
- Morelli, A., Johansen, T. G., Pidcock, R., et al. (2021). Co-designing engaging and accessible data visualisations: a case study of the IPCC reports. *Climatic Change*, 168: 26.
- Morseletto, P., Biermann, F. and Pattberg, P. (2017). Governing by targets: reductio ad unum and evolution of the two-degree climate target. *International Environmental Agreements: Politics, Law and Economics*, 17(5): 655–676.
- Moss, R. H. (1995). The IPCC: policy relevant not driven: scientific assessment. *Global Environmental Change*, 5: 171–174.
- Moss, R. H., Babiker, M., Brinkman, S., et al. (2008). *Towards New Scenarios for Analysis of Emissions, Climate Change, Impacts, and Response Strategies*. Geneva: IPCC.
- Moss, R. H., Edmonds, J. A., Hibbard, K. A., et al. (2010). The next generation of scenarios for climate change research and assessment. *Nature*, 463(7282): 747–756.
- Moss, R. H. and Schneider, S. (2000). Uncertainties. In: Pachauri, R., Taniguchi, T. and Tanaka, K. (eds.), *Guidance Papers on the Cross Cutting Issues of the Third Assessment Report of the IPCC*. Geneva: IPCC. pp. 33–52.
- Najam, A., Rahman, A. A., Huq, S., and Sokona, Y. (2003). Integrating sustainable development into the Fourth Assessment Report of the Intergovernmental Panel on Climate Change. *Climate Policy*, 3(S1): S9–S17.
- Nakicenovic, N., Alcamo, J., Davis, G., et al. (2000). *Special Report on Emissions Scenarios*. Cambridge: Cambridge University Press.
- Nalau, J., Becken, S., Schliephack, J., et al. (2018). The role of indigenous and traditional knowledge in ecosystem-based adaptation: a review of the literature and case studies from the Pacific Islands. *Weather, Climate, and Society*, 10(4): 851–865.
- National Grid (2021). *Future Energy Scenarios 2021*. London. Available at: www.nationalgrideso.com/document/202851/download (Accessed: 21 July 2021).
- Nerlich, N. and Jaspal, R. (2014). Images of extreme weather: symbolising human responses to climate change. *Science as Culture*, 23(2): 253–276.
- Newell, P. (2006). *Climate for Change: Non-state Actors and the Global Politics of the Greenhouse*. Cambridge: Cambridge University Press.
- Nightingale, A. J., Eriksen, S., Taylor, M., et al. (2020). Beyond technical fixes: climate solutions and the great derangement. *Climate and Development*, 12(4): 343–352.
- Nocke, T. (2014). Images for data analysis: the role of visualisation in climate research processes. In: Schneider, B. and Nocke, T. (eds.), *Image Politics of Climate Change: Visualizations, Imaginations, Documentations*. New York: Columbia University Press. pp. 54–77.

- Nordlund, G. (2008). Futures research and the IPCC assessment study on the effects of climate change. *Futures*, 40(10): 873–876.
- NRC [National Research Council] (1979). *Carbon Dioxide and Climate: A Scientific Assessment*. Washington, DC: National Academy Press. <https://doi.org/10.17226/12181>.
- OAS [Organization of American States] (2016). *American Declaration on the Rights of Indigenous Peoples*. Washington, DC: Organisation of American States.
- O'Brien, K. (2012). Global environmental change II: from adaptation to deliberative transformation. *Progress in Human Geography*, 36(5): 667–676.
- O'Neill, B. C., Carter, T., Ebi, K., et al. (2020). Achievements and needs for the climate change scenario framework. *Nature Climate Change*, 10(12): 1074–1084.
- O'Neill, B. C., Kriegler, E., Riahi, K., et al. (2014). A new scenario framework for climate change research: the concept of shared socioeconomic pathways. *Climatic Change*, 122: 387–400.
- O'Neill, B. C., Oppenheimer, M., Warren, R., et al. (2017). IPCC reasons for concern regarding climate change risks. *Nature Climate Change*, 7(1): 28–37.
- O'Neill, B. C., Tebaldi, C., van Vuuren, D. P., et al. (2016). The Scenario Model Intercomparison Project (ScenarioMIP) for CMIP6. *Geoscientific Model Development*, 9: 3461–3482.
- O'Neill, S. J., Hulme, M., Turnpenny, J. and Screen J. A. (2010). Disciplines, geography, and gender in the framing of climate change. *Bulletin of the American Meteorological Society*, 91(8): 997–1002.
- O'Neill, S. J., Williams, H., Kurz, T., et al. (2015). Dominant frames in legacy and social media coverage of the IPCC Fifth Assessment Report. *Nature Climate Change*, 5: 380–385.
- O'Reilly, J. (2015). Glacial dramas: typos, projections, and peer review in the Fourth Assessment of the Intergovernmental Panel on Climate Change. In: Barnes, J. and Dove, M. (eds.), *Climate Cultures*. New Haven, CT: Yale University Press. pp. 107–126.
- O'Reilly, J., Brysse, K., Oppenheimer, M. and Oreskes, N. (2011). Characterizing uncertainty in expert assessments: ozone depletion and the West Antarctic ice sheet. *Wiley Interdisciplinary Reviews: Climate Change*. 2: 728–743.
- O'Reilly, J., Oreskes, N. and Oppenheimer, M. (2012). The rapid disintegration of projections: the West Antarctic Ice Sheet and the IPCC. *Social Studies of Science*, 42(5): 709–731.
- Obermeister, N. (2017). From dichotomy to duality: addressing interdisciplinary epistemological barriers to inclusive knowledge governance in global environmental assessments. *Environmental Science & Policy*, 68: 80–86.
- Oppenheimer, M., O'Neill, B. C., Webster, M. and Agrawala, S. (2007). The limits of consensus. *Science*, 317: 1505–1506.
- Oppenheimer, M., Oreskes, N., Jamieson, D., et al. (2019). *Discerning Experts: The Practices of Scientific Assessment for Environmental Policy*. Chicago, IL: University of Chicago Press.
- Oppenheimer, M. and Petsonk, A. (2005). Article 2 of the UNFCCC: Historical origins, recent interpretations. *Climatic Change*, 73(3): 195–226.
- Oreskes, N. (2004). The scientific consensus on climate change. *Science*, 306: 1686.
- Oreskes, N. (2019). *Why Trust Science?* Princeton, NJ: Princeton University Press.
- Oreskes, N. and Conway, E. M. (2010). *Merchants of Doubt: How a Handful of Scientists Obscured the Truth on Issues from Tobacco Smoke to Global Warming*. New York: Bloomsbury Press.
- Oreskes, N., Shrader-Frechette, K. and Belitz, K. (1994). Verification, validation, and confirmation of numerical models in the earth sciences. *Science*, 263: 641–646.

- Ostrom, E. (2009). *A Polycentric Approach for Coping with Climate Change*. World Bank Policy Research Working Paper 5095. Washington, DC: World Bank.
- Ourbak, T. and Tubiana, L. (2017). Changing the game: The Paris Agreement and the role of scientific communities. *Climate Policy*, 17(7): 819–824.
- Pachauri, R. K. (2009). Statement of Dr. R. K. Pachauri. 22 September. Available at: <https://archive.ipcc.ch/pdf/presentations/rkp-statement-unccs-09.pdf> (Accessed: 19 February 2022).
- Pachauri, R. K., Taniguchi, T., and Tanaka, K. (eds.) (2000). *Guidance Papers on the Cross Cutting Issues of the Third Assessment Report of the IPCC*. Geneva: IPCC. Available at: www.ipcc.ch/publication/guidance-papers-on-the-cross-cutting-issues-of-the-third-assessment-report-of-the-ipcc/ (Accessed: 12 February 2022).
- Packalen, M. and Bhattacharya, J. (2015). *Age and the Trying Out of New Ideas*. National Bureau of Economic Research Working Paper No. 20920. Cambridge, MA.
- Paglia, E. and Parker, C. (2021). The Intergovernmental Panel on Climate Change: guardian of climate science. In: Boin, A., Fahy, L. A., and 't Hart, P. (eds.), *Guardians of Public Value*. London: Cham, Palgrave Macmillan. pp. 295–321.
- Pallett, H. and Chilvers, J. (2013). A decade of learning about publics, participation, and climate change: institutionalising reflexivity? *Environment and Planning A*, 45: 1162–1183.
- Palmer, J., Owens, S. and Doubleday, R. (2019). Perfecting the 'elevator pitch'? Expert advice as locally-situated boundary work. *Science and Public Policy*, 46(2): 244–253.
- Parsons, M., Fisher, K. and Nalau, J. (2016). Alternative approaches to co-design: insights from indigenous/academic research collaborations. *Current Opinion in Environmental Sustainability*, 20: 99–105.
- Paterson, M., (1996). *Global Warming and Global Politics*. London/New York: Routledge.
- Patt, A. (2007). Assessing model-based and conflict-based uncertainty. *Global Environmental Change*, 17(1): 37–46.
- Patt, A. and Dessai, S. (2005). Communicating uncertainty: lessons learned and suggestions for climate change assessment. *Comptes Rendus Geoscience*, 337(4): 425–441.
- PBL [Netherlands Environmental Assessment Agency] (2010). *Assessing an IPCC Assessment. An Analysis of Statements on Projected Regional Impacts in the 2007 Report*. The Hague: Netherlands Environmental Assessment Agency.
- Pearce, D. (1996). Climate confusion. *Environment and Planning A*, 28(1): 8–10.
- Pearce, D. (1997). Economists and climate change. *Environment and Planning A*, 29(1): 1–4.
- Pearce, W., Grundmann, R., Hulme, M., Raman, S., Kershaw, E. H. and Tsouvalis, J. (2017a). Beyond counting climate consensus. *Environmental Communication*, 11(6): 723–730.
- Pearce, W., Grundmann, R., Hulme, M., Raman, S., Hadley Kershaw, E. and Tsouvalis, J. (2017b). A reply to Cook and Oreskes on climate science consensus messaging. *Environmental Communication*, 11(6): 736–739.
- Pearce, W., Mahony, M. and Raman, S. (2018). Science advice for global challenges: learning from trade-offs in the IPCC. *Environmental Science & Policy*, 80: 125–131.
- Petersen, A. C. (2000). Philosophy of climate science. *Bulletin of the American Meteorological Society*, 81(2): 265–271.
- Petersen, A. C. ([2006] 2012). *Simulating Nature: A Philosophical Study of Computer-Simulation Uncertainties and Their Role in Climate Science and Policy Advice*, 2nd ed. Boca Raton, FL: CRC Press.
- Petersen, A. C. (2007). Is het Watt of watt? Dagboek: Achter de schermen van de Parijse klimaatconferentie [Is it Watt or watt? Diary: Behind the scenes of the climate conference in Paris], about the IPCC Plenary of Working Group I (29 January–1

- February 2007) in the Dutch weekly news magazine *Vrij Nederland*, 10 February 2007, pp. 20–21. [In Dutch]
- Petersen, A. C. (2011). Climate simulation, uncertainty, and policy advice – the case of the IPCC. In: Gramelsberger, G. and Feichter, J. (eds.), *Climate Change and Policy*. Berlin: Springer. pp. 91–111.
- Petersen, A. C., Blackstock, J. B., and Morisetti, N. (2015). New leadership for a user-friendly IPCC. *Nature Climate Change*, 5: 909–911.
- Pielke, R., Jr. (2018). Opening up the climate policy envelope. *Issues in Science and Technology*, 34(4): 33–40.
- Pielke, R., Jr. (2002). Policy, politics and perspective. *Nature*, 416: 367–368.
- Pielke, R., Jr. and Ritchie, J. (2021). Distorting the view of our climate future: the misuse and abuse of climate pathways and scenarios. *Energy Research and Social Science*, 72: 101890.
- Pinch, T. (2015). Scientific controversies. In: Wright, J. D. (ed.), *International Encyclopedia of the Social & Behavioral Sciences*. Second Ed. Amsterdam: Elsevier. pp. 281–286.
- Poortvliet, P. M., Niles, M. T., Veraart, J. A., Werners, S. E., Korporaal, F. C. and Mulder, B. C. (2020). Communicating climate change risk: a content analysis of IPCC's Summary for Policymakers. *Sustainability*, 12(12): 4861.
- Porter, J. R., Challinor, A. J., Henriksen, C. B., Howden, S. M., Martre, P. and Smith, P. (2019). Invited review: Intergovernmental Panel on Climate Change, agriculture, and food – a case of shifting cultivation and history. *Global Change Biology*, 25(8): 2518–2529.
- Porter, T. M. (1995). *Trust in Numbers: The Pursuit of Objectivity in Science and Public Life*. Princeton, NJ: Princeton University Press.
- Pörtner, H. O., Scholes, R. J., Agard, J., et al. (2021). *IPBES-IPCC Co-Sponsored Workshop Report on Biodiversity and Climate Change*. IPBES and IPCC. <http://doi.org/10.5281/zenodo.4782538>.
- Provost, G. (2019). Rigorous and relevant: applying lessons from the history of IPCC Special Reports to the Post-Paris Agreement world. *Harvard Environmental Law Review*, (43): 507–546.
- Raman, S. and Pearce, W. (2020). Learning the lessons of Climategate: a cosmopolitan moment in the public life of climate science. *Wiley Interdisciplinary Reviews: Climate Change*, 11, e672.
- Randalls, S. (2010). History of the 2° C climate target. *Wiley Interdisciplinary Reviews: Climate Change*, 1(4): 598–605.
- Rayner, S. and Malone, E. L. (eds.) (1998). *Human Choice and Climate Change*, 4 Vols. Columbus, OH: Battelle Press.
- Reisinger, A., Howden, H., Vera, C., et al. (2020). *The Concept of Risk in the IPCC Sixth Assessment Report: A Summary of Cross-Working Group Discussions*. Geneva: IPCC. Available at: www.ipcc.ch/event/guidance-note-concept-of-risk-in-the-6ar-cross-wg-discussions/ (Accessed: 11 February 2022).
- Rescher, N. (1993). *Pluralism: Against the Demand for Consensus*. Oxford: Oxford University Press.
- Rheinberger, H.-J. (1997). *Toward a History of Epistemic Things: Synthesizing Proteins in the Test Tube*. Stanford: Stanford University Press.
- RiOUSset, P., Flachsland, C. and Kowarsch, M. (2017). Global environmental assessments: impact mechanisms. *Environmental Science & Policy*, 77: 260–267.
- Ripple, W. J., Wolf, C., Newsome, T. M., et al. (2021). World scientists' warning of a climate emergency 2021. *BioScience*, 71(9): 894–898.

- Rivera-Ferre, M. G. (2020). From agriculture to food systems in the IPCC. *Global Change Biology*, 26(5): 2731–2733.
- Robertson, S. (2021). Transparency, trust, and integrated assessment models: an ethical consideration for the Intergovernmental Panel on Climate Change. *Wiley Interdisciplinary Reviews: Climate Change*, 12(1): e679.
- Rodhe, H. (2013). Bert Bolin (1925–2007) – a world leading climate scientist and science organiser. *Tellus B: Chemical and Physical Meteorology*, 65(1): 20583.
- Rothstein, H., Borraz, O. and Huber, M. (2012). Risk and the limits of governance: exploring varied patterns of risk-based governance across Europe. *Regulation & Governance*, 7: 215–235.
- Rowe, E. (2012). International science, domestic politics: Russian reception of international climate-change assessments. *Environment and Planning D: Society and Space*, 30: 711–726.
- Rueschemeyer, D. and Skocpol, T. (eds.) (1996). *States, Social Knowledge, and the Origins of Modern Social Policies*. Princeton, NJ: Princeton University Press.
- Ruffini, P.-B. (2017). *Science and Diplomacy*. New York: Springer International Publishing.
- Sanford, M., Painter, J., Yasseri, T. and Lorimer, J. (2021). Controversy around climate change reports: a case study of Twitter responses to the 2019 IPCC report on land. *Climatic Change*, 167(3–4): 1–25.
- Sarewitz, D. (2004). How science makes environmental controversies worse. *Environmental Science & Policy*, 7: 385–403.
- Sarewitz, D. (2011). Does climate change knowledge really matter? *Wiley Interdisciplinary Reviews: Climate Change*, 2(4): 475–481.
- Savo, V., Lepofsky, D., Benner, J., et al. (2016). Observations of climate change among subsistence-oriented communities around the world. *Nature Climate Change*, 6: 462–473.
- Sawatzky, A., Cunsolo, A., Jones-Bitton, A., et al. (2020). ‘The best scientists are the people that’s out there’: Inuit-led integrated environment and health monitoring to respond to climate change in the Circumpolar North. *Climatic Change*, 160(1): 45–66.
- Schellnhuber, H. (1999). Earth system’ analysis and the second Copernican revolution. *Nature*, 402: C19–C23.
- Schipper, E. L. F., Dubash, N. K. and Mulugetta, Y. (2021). Climate change research and the search for solutions: Rethinking interdisciplinarity. *Climatic Change*, 168(3): 18.
- Schneider, S. H. (1991). Report on reports: three reports of the Intergovernmental Panel on Climate Change. *Environment: Science and Policy for Sustainable Development*, 33(1): 25–30.
- Schön, D. and Argyris, C. (1996). *Organizational Learning II: Theory, Method and Practice*. Reading, MA: Addison Wesley.
- Schulte-Uebbing, L., Hansen, G., Macaspac Hernández, A. and Winter, M. (2015). Chapter scientists in the IPCC AR5 – experiences and lessons learned. *Current Opinion Environmental Sustainability*, 14: 250–256.
- Scott, J. C. (1995). *Seeing Like a State: How Certain Schemes to Improve the Human Condition Have Failed*. Hartford, CT: Yale University Press.
- Sénit, C.-A., Biermann, F. and Kalfagianni, A. (2017). The representativeness of global deliberation: a critical assessment of civil society consultations for sustainable development. *Global Policy*, 8: 62–72.
- Shackley, S. (1997). The IPCC: consensual knowledge and global politics. *Global Environmental Change*, 7: 77–79.

- Shackley, S., Risbey, J., Stone, P. and Wynne, B. (1999). Adjusting to policy expectations in climate change modeling: an interdisciplinary study of flux adjustments in coupled atmosphere-ocean general circulation models. *Climatic Change*, 43: 413–454.
- Shackley, S. and Skodvin, T. (1995). IPCC gazing and the interpretative social sciences. *Global Environmental Change*, 5(3): 175–180.
- Shackley, S. and Wynne, B. (1996). Representing uncertainty in global climate change science and policy: boundary-ordering devices and authority. *Science, Technology, and Human Values*, 21(3): 275–302.
- Shackley, S. and Wynne, B. (1997). Global warming potentials: ambiguity or precision as an aid to policy? *Climate Research*, 8(2): 89–106.
- Shapin, S. (1998). Placing the view from nowhere: historical and sociological problems in the location of science placing. *Transactions of the Institute of British Geographers*, 23(1): 5–12.
- Shapin, S. (2010). *Never Pure: Historical Studies of Science as If It Was Produced by People with Bodies, Situated in Time, Space, Culture and Society, and Struggling for Credibility and Authority*. Baltimore, MA: The John Hopkins University Press.
- Shaw, A. (2005). *Policy Relevant Scientific Information: The Co-Production of Objectivity and Relevance in the IPCC*. Berkeley, CA: Breslauer Symposium, University of California International and Area Studies.
- Shaw, A. and Robinson, J. (2004). Relevant but not prescriptive? Science policy models within the IPCC. *Philosophy Today*, 48: 106–117.
- Shaw, C. (2013). Choosing a dangerous limit for climate change: public representations of the decision-making process. *Global Environmental Change*, 23(2): 563–571.
- Shukla, J., Hagedorn, R., Miller, M., et al. (2009). Strategies: revolution in climate prediction is both necessary and possible: a declaration at the World Modelling Summit for climate prediction. *Bulletin of the American Meteorological Society*, 90: 175–178.
- Siebenhüner, B. (2002). How do scientific assessments learn? Part 1. Conceptual framework and case study of the IPCC. *Environmental Science & Policy*, 5(5): 411–420.
- Siebenhüner, B. (2003). The changing role of nation states in international environmental assessments – the case of the IPCC. *Global Environmental Change*, 13(2): 113–123.
- Siebenhüner, B. (2014). Changing demands at the science–policy interface: organizational learning in the IPCC. In: Hey, E., Raulus, H., Arts, K. and Ambrus, M. (eds.), *The Role of ‘Experts’ in International and European Decision-Making Processes: Advisors, Decision Makers or Irrelevant Actors?* Cambridge: Cambridge University Press. pp. 126–147.
- Silberzahn, R., Uhlmann, E. L., Martin, D. P., et al. (2018). Many analysts, one data set: making transparent how variations in analytic choices affect results. *Advances in Methods and Practices in Psychological Science*, 1: 337–356.
- Simpson, N. P., Mach, K. J., Constable, A., et al. (2021). A framework for complex climate change risk assessment. *One Earth*, 4(4): 489–501.
- Skea, J., Shukla, P., Al Khouradje, A. and McCollum, D. (2021). Intergovernmental Panel on Climate Change: transparency and integrated assessment modelling. *Wiley Interdisciplinary Reviews: Climate Change*, e727.
- Skodvin, T. (2000a). Revised rules of procedure for the IPCC process. *Climatic Change*, 46(4): 409–415.
- Skodvin, T. (2000b). *Structure and Agent in the Scientific Diplomacy of Climate Change: An Empirical Case Study of Science-Policy Interaction in the Intergovernmental Panel on Climate Change*. Dordrecht: Kluwer Academic Publishers.

- Skrydstrup, M. (2013). Tricked or troubled natures? How to make sense of 'Climategate'. *Environmental Science & Policy*, 28: 92–99.
- Smallman, M. (2016). Public understanding of science in turbulent times III: deficit to dialogue, champions to critics. *Public Understanding of Science*, 25(2): 186–197.
- Smith, H. A. and Sharp, K. (2012). Indigenous climate knowledges. *Wiley Interdisciplinary Reviews: Climate Change*, 3(5): 467–476.
- Social Learning Group (2001). *Learning to Manage Global Environmental Risks*. 2 vols. Cambridge, MA: MIT Press.
- Søgaard Jørgensen, P., Evoh, C. J., Gerhardinger, L. C., et al. (2019). Building urgent intergenerational bridges: assessing early career researcher integration in global sustainability initiatives. *Current Opinion Environmental Sustainability*, 39: 153–159.
- Spier, R. (2002). The history of the peer-review process. *Trends in Biotechnology*, 20(8): 357–358.
- Standring, A. and Lidskog, R. (2021). (How) Does diversity still matter for the IPCC? instrumental, substantive and co-productive logics of diversity in global environmental assessments. *Climate*, 9(6): 99.
- Star, S. L. (2010). This is not a boundary object: reflections on the origin of a concept. *Science, Technology, & Human Values*, 35(5): 601–617.
- Star, S. L. and Griesemer, J. R. (1989). Institutional ecology, 'translations' and boundary objects: amateurs and professionals in Berkeley's Museum of Vertebrate Zoology, 1907–39. *Social Studies of Science*, 19(3): 387–420.
- Stavins, R. (2014). Is the IPCC government approval process broken? 24 April. Available at: www.huffpost.com/entry/is-the-ipcc-government-ap_b_5223421 (Accessed: 19 February 2022).
- Stengers, I. (2005). The cosmopolitical proposal. In: Latour, B. and Weibel, P. (eds.), *Making Things Public*. Cambridge, MA: MIT Press. pp. 994–1003.
- Stern, P. and Dietz, T. (2015). IPCC: social scientists are ready. *Nature*, 521: 161.
- Stirling, A. (2010). Keep it complex. *Nature*, 468: 1029–1031.
- Stocker, T. F. and Plattner, G. K. (2016). Making use of the IPCC's powerful communication tool. *Nature Climate Change*, 6(7): 637–638.
- Stouffer, R., Eyring, V., Meehl, G. A., et al. (2017). CMIP 5 scientific gaps and recommendations for CMIP 6. *Bulletin of the American Meteorological Society*, 98(1): 95–105.
- Sundqvist, G., Bohlin, I., Hermansen, E. and Yearley, S. (2015). Formalization and separation: a systematic basis for interpreting approaches to summarizing science for climate policy. *Social Studies of Science*, 3(45): 416–440.
- Sundqvist, G., Gasper, D., Lera St. Clair, A., et al. (2018). One-world or two?: science-policy interactions in the climate field. *Critical Policy Studies*, 12(4): 448–468.
- Swart, R., Bernstein, L., Ha-Duong, M. and Petersen, A., (2009). Agreeing to disagree: uncertainty management in assessing climate change, impacts and responses by the IPCC. *Climatic Change*, 92(1): 1–29.
- Tàbara, J. D., St. Clair, A. L. and Hermansen, E. A. T. (2017). Transforming communication and knowledge production processes to address high-end climate change. *Environmental Science & Policy*, 70: 31–37.
- Tallberg, J., Sommerer, T., Squatrito, T. and Jönsson, C. (2013). *The Opening Up of International Organizations: Transnational Access in Global Governance*. Cambridge: Cambridge University Press.
- Teng, F. and Wang, P. (2021). The evolution of climate governance in China: drivers, features, and effectiveness. *Environmental Politics*, 30(Sup.): 141–161.

- Tengö, M., Brondizio, E. S., Elmqvist, T., Malmer, P. and Spierenburg, M. (2014). Connecting diverse knowledge systems for enhanced ecosystem governance: the multiple evidence base approach. *Ambio*, 43: 579–591.
- Teso-Alonso, M.-G., Morales-Corral, E. and Gaitán-Moya, J.-A. (2021). The climate emergency in the Spanish media and the ‘Decalogue of recommendations for reporting on climate change’. *Communication & Society*, 34(2): 107–123.
- Tirpak, D. and Vellinga, P. (1990). Emissions scenarios. In: IPCC, *Climate Change: The IPCC Response Strategies*. Cambridge: Cambridge University Press.
- Tollefson, J. (2010). Climate science: an erosion of trust? *Nature News*, 466: 24–26.
- Touzé-Peiffer, L., Barberousse, A. and Le Treut, H. (2020). The Coupled Model Intercomparison Project: history, uses, and structural effects on climate research. *Wiley Interdisciplinary Reviews: Climate Change*, 11(4): e648.
- Trench, B. (2008). Towards an analytical framework of science communication models. In: Cheng, D., Claessens, M., Gascoigne, T., Metcalfe, J., Schiele, B. and Shi, S. (eds.), *Communicating Science in Social Contexts*. Netherlands: Springer. pp. 119–135.
- Turnhout, E., Dewulf, A. and Hulme, M. (2016). What does policy-relevant global environmental knowledge do? The cases of climate and biodiversity. *Current Opinion in Environmental Sustainability*, 18: 65–72.
- UN (2007). *UNDRIP United Nations General Assembly Declaration of the Rights of Indigenous Peoples, A/RES/61/295*. Available at: www.un.org/esa/socdev/unpfii/documents/DRIPS_en.pdf (Accessed: 2 March 2022).
- UNDP (2020). *People’s Climate Vote: Results*. www.undp.org/publications/peoples-climate-vote#modal-publication-download
- UNEP (2021). *Why Private Sector Engagement Matters*. Available at: www.unep.org/about-un-environment/private-sector-engagement/why-private-sector-engagement-matters (Accessed: 15 January 2022).
- UNFCCC (2015). *Adoption of the Paris Agreement. United Nations Framework Convention on Climate Change*. Conference of the Parties (COP) twenty-first session. FCCC/CP/2015/L.9/Rev.1
- Vadrot, A. B. M. (2017). Knowledge, international relations and the structure–agency debate: towards the concept of ‘epistemic selectivities’. *Innovation: The European Journal of Social Science Research*, 30(1): 61–72.
- van Bavel, B. (2021). Indigenous knowledges in the IPCC assessment process: time for a reboot. Chapter 4 in: *Diversifying Knowledge(s) to Advance Climate-Health Responses Locally and Globally*. Unpublished PhD thesis, University of Leeds, UK.
- van Beek, L., Hajer, M., Pelzer, P., van Vuuren, D. and Cassen, C. (2020a). Anticipating futures through models: The rise of Integrated Assessment Modelling in the climate science–policy interface since 1970. *Global Environmental Change*, 65: 102191.
- van Beek, L., Metze, T., Kunseler, E., Huitzing, H., de Blois, F. and Wardekker, A. (2020b). Environmental visualizations: framing and reframing between science, policy and society. *Environmental Science & Policy*, 114: 497–505.
- van den Hove, S. (2007). A rationale for science-policy interfaces. *Futures*, 39(7): 807–826.
- van der Hel, S. and Biermann, F. (2017). The authority of science in sustainability governance: a structured comparison of six science institutions engaged with the Sustainable Development Goals. *Environmental Science & Policy*, 77: 211–220.
- van der Sluijs, J., van Eijndhoven, J., Shackley, S. and Wynne, B. (1998). Anchoring devices in science for policy: the case of consensus around the climate sensitivity. *Social Studies of Science*, 28(2): 291–323.

- van der Veer, L., Visser, H., Petersen, A. and Janssen, P. (2014). Innovating the IPCC review process – the potential of young talent. *Climatic Change*, 125: 137–148.
- Vardy, M., Oppenheimer, M., Dubash, N. K., O'Reilly, J. and Jamieson, D. (2017). The Intergovernmental Panel on Climate Change: challenges and opportunities. *The Annual Review of Environment and Resources*, 42: 55–75.
- Vasileiadou, E., Heimeriks, G. and Petersen, A. C. (2011). Exploring the impact of the IPCC Assessment Reports on science. *Environmental Science & Policy*, 14(8): 1052–1061.
- Vaughan, C. (2016). *An Institutional Analysis of the IPCC Task Group on Data and Scenario Support for Impacts and Climate Analysis (TGICA)*. A working paper of the Climate Services Partnership CSP 20160101. Available at: www.climate-services.org/wp-content/uploads/2016/04/Vaughan-TGICA-Institutional-Analysis-Jan-15-2016_final.pdf (Accessed: 3 September 2021).
- Venturini, T. (2010). Diving in magma: how to explore controversies with actor-network theory. *Public Understanding of Science*, 19(3): 258–273.
- Venturini, T. and Munck, A. (2021). *Controversy Mapping: A Field Guide*. Cambridge: Polity.
- Venturini, T., De Pryck, K. and Ackland, R. (2022). Bridging in network organisations: the case of the Intergovernmental Panel on Climate Change (IPCC). *Social Networks*. <https://doi.org/10.1016/j.socnet.2022.01.015>
- Verheggen, B., Strengers, B., Cook, J., et al. (2014). Scientists' views about attribution of global warming. *Environmental Science & Technology*, 48: 8963–8971.
- Victor, D. G., Gerlagh, R. and Baiocchi, G. (2014). Getting serious about categorizing countries. *Science*, 345(6192): 34–36.
- Victor, D. G. (2015). Embed the social sciences in climate policy. *Nature*, 520: 27–29.
- Viner, D. and Howarth, C. (2014). Practitioners' work and evidence in IPCC reports. *Nature Climate Change*, 4: 848–850.
- von Bernstorff, J. (2021). New Responses to the legitimacy crisis of international institutions: the role of 'civil society' and the rise of the principle of participation of 'the most affected' in international institutional law. *European Journal of International Law*, 32: 125–157.
- Voosen, P. (2020). Europe builds 'digital twin' of Earth to hone climate forecasts. *Science*, 370: 16–17.
- Walsh, L. (2010). Before climategate: visual strategies to integrate ethos across the 'is/ought' divide in the IPCC's Climate Change 2007: Summary for Policy Makers. *Poroi*, 6(2): 33–61.
- Walsh, L. (2015). The visual rhetoric of climate change. *Wiley Interdisciplinary Reviews: Climate Change*, 6(4): 361–368.
- Wang, Z., Altenburger, R., Backhaus, T., et al. (2021). We need a global science-policy body on chemicals and waste. *Science*, 371: 774–776.
- Wardekker, A. and Lorenz, S. (2019). The visual framing of climate change impacts and adaptation in the IPCC assessment reports. *Climatic Change*, 156: 273–292.
- Watson, R. T. (2005). Turning science into policy: challenges and experiences from the science–policy interface. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 360(1454): 471–477.
- Weart, S. R. (2008). *The Discovery of Global Warming: Revised and Expanded Edition*. Cambridge, MA: Harvard University Press.
- Weart, S. R. (2021). *The Discovery of Global Warming: International Cooperation*. Available at: <https://history.aip.org/climate/internat.htm> (Accessed: 14 August 2021).

- Weyant, J., Azar, C., Kainuma, M., et al. (2009). *Report of 2.6 versus 2.9 Watts/m² RCP Evaluation Panel*. Integrated Assessment Modelling Consortium, 2009. Available as IPCC-XXX/INF.6.
- Whatmore, S. J. (2009). Mapping knowledge controversies: science, democracy and the redistribution of expertise. *Progress in Human Geography*, 33(5): 587–598.
- Whyte, K. (2018). What do Indigenous knowledges do for Indigenous peoples? In: Nelson, M. K. and Shilling, D. (eds.), *Keepers of the Green World: Traditional Ecological Knowledge and Sustainability*. Cambridge: Cambridge University Press. pp. 57–82.
- Wible, B. (2014). IPCC lessons from Berlin: Did the ‘Summary for Policymakers’ become a summary by policy-makers? *Science*, 345(6192):34.
- Wilhere, G. (2021). A Paris-like agreement for biodiversity needs IPCC-like science. *Global Ecology and Conservation*, 28: e01617.
- Wilkinson, M. D., Dumontier, M., Aalbersberg, A., et al. (2016). The FAIR guiding principles for scientific data management and stewardship. *Scientific Data*, 3: 160018.
- Wimsatt, W. K. and Beardsley, M. C. (1946). The intentional fallacy. *The Sewanee Review*, 54(3): 468–488.
- World Meteorological Organization (WMO) (2021). *The WMO Building / Conference Centre*. Available at: <https://public.wmo.int/en/resources/wmo-building-conference-centre> (Accessed: 15 January 2022).
- Wynne, B. (1984). The institutional context of science, models, and policy: the IASA energy study. *Policy Sciences*, 17: 277–320.
- Wynne, B. (1993). Public uptake of science: a case for institutional reflexivity. *Public Understanding of Science*, 2: 321–337.
- Xue, W., Hine, D., Marks, A., Phillips, W. and Zhao, S. (2016). Cultural worldviews and climate change: a view from China. *Asian Journal of Social Psychology*, 19: 134–144.
- Yamineva, Y. (2017). Lessons from the Intergovernmental Panel on Climate Change on inclusiveness across geographies and stakeholders. *Environmental Science & Policy*, 77: 244–251.
- Yarrow, T. (2017). Where knowledge meets: heritage expertise at the intersection of people, perspective, and place. *Journal of the Royal Anthropological Institute*, 23(S1): 95–109.
- Yearley, S. (2009). Sociology and climate change after Kyoto: what roles for social science in understanding climate change? *Current Sociology*, 57(3): 389–405.
- Yona, L., Cashore, B. and Bradford, M. A. (2022). Factors influencing the development and implementation of national greenhouse gas inventory methodologies. *Policy Design and Practice*. <http://doi.org/10.1080/25741292.2021.2020967>
- Zillman, J. W. (2007). Some observations on the IPCC assessment process 1988–2007. *Energy and Environment*, 18: 869–892.
- Zillman, J. W. (2009). A history of climate activities. *WMO Bulletin*, 58(3): 141–150.
- Zommers, Z., Marbaix, P., Fischlin, P., et al. (2020). Burning embers: towards more transparent and robust climate-change risk assessments. *Nature Reviews Earth & Environment*, 1: 516–529.
- Zorita, E. (2019). The climate of the past millennium and online public engagement in a scientific debate. *Wiley Interdisciplinary Reviews: Climate Change*, 10(5): e590.