

## Egalitarianism-Hierarchy

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**See also:** anarchism, classes, complexity, economy, gender issues, leadership, politics, power, primitive communism, sharing, slavery, status.

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Artemova, O.

2003 Monopolization of knowledge, social inequality, and female status: a cross-cultural study. *Cross-Cultural Research* 37(1):62-80.

2016 Monopolisation of knowledge, social inequality and egalitarianism: an evolutionary perspective. *Hunter Gatherer Research* 2(1):5-37.

Barnard, A.

2017 "Egalitarian and non-egalitarian sociality", in *Human nature and social life: perspectives on extended sociality*, by Jon Henrik Ziegler Remme & Kenneth Sillander (eds.), pp. 83-96. Cambridge: Cambridge University Press.

Barnard, A. & Woodburn, J.

1988 "Property, power and ideology in hunter-gathering societies: an introduction", in *Hunters and gatherers, Vol. 2: property, power and ideology*, by Tim Ingold, David Riches & James Woodburn (eds.), pp. 4-31. Oxford: Berg, Explorations in Anthropology.

Begler, E.

1978 Sex, status, and authority in egalitarian society. *American Anthropologist* (N.S.) 80(3):571-588.

Benjamin, G.

2011 "Egalitarianism and ranking in the Malay World", in *Anarchic solidarity: autonomy, equality and fellowship in Southeast Asia*, by Kenneth Sillander & Thomas Gibson (eds.), pp. 170-201. New Haven, CT: Yale University Press, Yale Southeast Asia Studies, Monograph No. 60.

Bird, D. W. & Bliege Bird, R.

2010 "Competing to be leaderless: food sharing and magnanimity among Martu Aborigines", in *The evolution of leadership: transitions in decision making from small-scale to middle-range societies*, by Kevin J. Vaughn, Jelmer W. Eerkens & John Kantner (eds.), pp. 21-49. Santa Fe: School for Advanced Research Press, School for Advanced Research Advanced Seminar Series.

Bird-David, N.

1993 "Equality and liberty in a hunting and gathering society", in *The Sociology of the Kibbutz: an Open University course*, Unit 12: *the limits of equality*, by Eliezer Ben-Rafael *et al.* (eds.). Tel-Aviv: The Open University Press. (in Hebrew)

Bodenhorn, B.

2005 "Sharing costs: an exploration of personal and individual property, equalities and differentiation", in *Property and equality*, Vol. I: *ritualisation, sharing, egalitarianism*, by Thomas Widlok

- & Wolde Gossa Tadesse (eds.), pp. 77-104. Oxford: Berghahn.
- Boehm, C.  
 1999 *Hierarchy in the forest: the evolution of egalitarian behavior*. Cambridge, MA: Harvard University Press. 292 p.
- Bonilla, O.  
 2016 “Parasitism and subjection: modes of Paumari predation”, in *Ownership and nurture: studies in native Amazonian property relations*, by Marc Brightman, Carlos Fausto & Vanessa Grotti (eds.), pp. 110-132. New York: Berghahn.
- Borgerhoff Mulder, M., Bowles, S., Hertz, T., Bell, A., Beise, J., Clark, G., Fazzio, I., Gurven, M., Hill, K., Hooper, P. L., Irons, W., Kaplan, H., Leonetti, D., Low, B., Marlowe, F., McElreath, R., Naidu, S., Nolin, D., Riraino, P., Quinlan, R., Schniter, E., Sear, R., Shenk, M., Smith, E. A., von Rueden, C. & Wiessner, P.  
 2009 Intergenerational wealth transmission and the dynamics of inequality in small-scale societies. *Science* 326(5953):682-688.
- Burch, E. S., Jr.  
 1988 “Modes of exchange in north-west Alaska”, in *Hunters and gatherers, Vol. 2: property, power and ideology*, by Tim Ingold, David Riches & James Woodburn (eds.), pp. 95-109. Oxford: Berg, Explorations in Anthropology.
- BurnSilver, S. & Magdanz, J.  
 2019 Heterogeneity in mixed economies: implications for sensitivity and adaptive capacity. *Hunter Gatherer Research* 3(4):601-633.
- Caro, J.  
 2017 Resource sharing norms and generation of inequality in small-scale societies: a study through computational simulation based on qualitative ethnographic evidence. Ph.D. Thesis, Universitat Autònoma de Barcelona.
- Cashdan, E.  
 1980 Egalitarianism among hunters and gatherers. *American Anthropologist* (N.S.) 82(1):116-120.
- Chagnon, N. A.  
 1979 “Is reproductive success equal in egalitarian societies?”, in *Evolutionary biology and human social behavior: an anthropological perspective*, by Napoleon A. Chagnon & William Irons (eds.), pp. 374-401. North Scituate, MA: Duxbury Press.
- Crittenden, A. N.  
 2016 “To share or not to share? Social processes of learning to share food among Hadza hunter-gatherer children”, in *Social learning and innovation in contemporary hunter-gatherers: evolutionary and ethnographic perspectives*, by Hideaki Terashima & Barry S. Hewlett (eds.), pp. 61-70. Tokyo: Springer Japan, Replacement of Neanderthals by Modern Humans Series.
- Dallos, C.  
 2011 *From equality to inequality: social change among newly sedentary Lanoh hunter-gatherer traders of Peninsular Malaysia*. Toronto: University of Toronto Press, Anthropological Horizons. 336 p.
- Daly, R.  
 2009 Insulting the meat: foragers, sharing and ideological practices - an appreciation of Richard Lee’s egalitarianism. *Before Farming*

- 2009/4 article 2.
- Demmer, U.  
1996 *Verwandtschaft und sozialität bei den Jēnu Kurumba: vom arbeiten, vom teilen und von (un)gleichheit in einer südindischen sammler- und järgergesellschaft*. Stuttgart: Franz Steiner Verlag, Beiträge zur Südasiensforschung 173. 193 p.
- Donald, L.  
1997 *Aboriginal slavery on the Northwest Coast of North America*. Berkeley: University of California Press. 379 p.
- Draper, P.  
1975 “!Kung women: contrasts in sexual egalitarianism in foraging and sedentary contexts”, in *Toward an anthropology of women*, by Payna Rapp Reiter (ed.), pp.77-109. New York: Monthly Review Press.
- Draper, P. & Haney, C.  
2005 Patrilineal bias among a traditionally egalitarian people: Ju/’hoansi naming practice. *Ethnology* 44(3):243-259.
- Endicott, K. L.  
1981 The conditions of egalitarian male-female relationships in foraging societies. *Canberra Anthropology* 4(2):1-10.  
1984 The Batek De’ of Malaysia: development and egalitarian sex roles. *Cultural Survival Quarterly* 8(2):6-8.  
1992 “Fathering in an egalitarian society”, in *Father-child relations: cultural and biosocial contexts*, by Barry S. Hewlett (ed.), pp. 281-296. Hawthorne, NY: Aldine de Gruyter, Foundations of Human Behavior.  
1999 “Gender relations in hunter-gatherer societies”, in *The Cambridge encyclopedia of hunters and gatherers*, by Richard B. Lee & Richard Daly (eds.), pp. 411-418. Cambridge: Cambridge University Press.
- Endicott, K. M.  
1988 “Property, power and conflict among the Batek of Malaysia”, in *Hunters and gatherers, Vol. 2: property, power and ideology*, by Tim Ingold, David Riches & James Woodburn (eds.), pp. 110-127. Oxford: Berg, Explorations in Anthropology.  
2005 “The significance of trade in an immediate-return society: the Batek case”, in *Property and equality, Vol. 2: encapsulation, commercialization, discrimination*, by Thomas Widlok & Wolde Gossa Tadesse (eds.), pp. 79-89. Oxford: Berghahn.
- Endicott, K. M. & Endicott, K. L.  
2008 *The headman was a woman: the gender egalitarian Batek of Malaysia*. Long Grove, IL: Waveland Press. 163 p.
- Finnegan, M.  
2015 Dance, play, laugh: what capitalism can’t do. *Hunter Gatherer Research* 1(1):85-105.
- Fortier, J.  
2009 The ethnography of South Asian foragers. *Annual Review of Anthropology* 38:99-114.
- Fuglestedt, I.  
2012 The pioneer condition on the Scandinavian peninsula: the last frontier of a ‘Palaeolithic way’ in Europe. *Norwegian Archaeological Review* 45(1):1-29.
- Gardner, P.

- 1985 Prestige avoidance in gender egalitarian cultures. Paper presented at the 84<sup>th</sup> Annual Meeting of the American Anthropological Association, Washington, DC, 4-8 December 1985.
- 1991 Foragers' pursuit of individual autonomy. *Current Anthropology* 32(5):543-572.
- Gibson, T.
- 1988 "Meat sharing as a political ritual: forms of transaction versus modes of subsistence", in *Hunters and gatherers, Vol. 2: property, power and ideology*, by Tim Ingold, David Riches & James Woodburn (eds.), pp. 165-179. Oxford: Berg, Explorations in Anthropology.
- Gibson, T. & Sillander, K. (eds.)
- 2011 *Anarchic solidarity: autonomy, egalitarianism, and fellowship in Southeast Asia*. New Haven, CT: Yale University, Yale Southeast Asia Studies, Monograph No. 60. 310 p.
- Grier, C., Angelbeck, B. & McLay, E.
- 2017 Terraforming and monumentality as long-term social practice in the Salish Sea region of the Northwest Coast of North America. *Hunter Gatherer Research* 3(1):107-132.
- Gros, S.
- 2007 "The missing share: the ritual language of sharing as a 'total social fact' in the eastern Himalayas (northwest Yunnan, China)", in *Social dynamics in the highlands of Southeast Asia: reconsidering Political systems of Highland Burma by E.R. Leach*, by François Robinne & Mandy Sadan (eds.), pp. 257-282. Leiden: Brill, Handbook of Oriental Studies. Section 3, Southeast Asia V. 18.
- Gurven, M., Jaeggi, A. V., von Rueden, C., Hooper, P. L. & Kaplan, H.
- 2015 Does market integration buffer risk, erode traditional sharing practices and increase inequality? A test among Bolivian forager-farmers. *Human Ecology* 43(4):515-530.
- Hamid Mohd, I.
- 2015 *The last descendants of the Lanoh hunters and gatherers in Malaysia*. Gelugor: Penerbit USM, Inaugural Archaeology Series. 108 p.
- Hewlett, B. S., Hudson, J., Boyette, A. H. & Fouts, H. N.
- 2019 "Intimate living: sharing space among Aka and other hunter-gatherers", in *Towards a broader view of hunter-gatherer sharing*, by Noa Lavi & David E. Friesem (eds.), pp. 39-56. Cambridge: McDonald Institute for Archaeological Research, McDonald Institute Conversations.
- Hitchcock, R. K.
- 2014 "Hunter-gatherer research traditions in southern Africa", in *The Oxford handbook of the archaeology and anthropology of hunter-gatherers*, by Vicki Cummings, Peter Jordan & Marek Zvelebil (eds.), pp. 918-935. Oxford: Oxford University Press, Oxford Handbooks in Archaeology.
- Kameda, T., Takezawa, M., Tindale, R. S. & Smith, C. M.
- 2002 Social sharing and risk reduction: exploring a computational algorithm for the psychology of windfall gains. *Evolution and Human Behavior* 23(1):11-33.
- Keen, I.
- 2005 "Delay, return and hierarchy: six Aboriginal marriage systems compared", in *Property and equality, Vol. 2: encapsulation, commercialization, discrimination*, by Thomas Widlok & Wolde

- Gossa Tadesse (eds.), pp. 129-151. Oxford: Berghahn.
- Kelly, R. L.
- 1991 "Sedentism, sociopolitical inequality, and resource fluctuations", in *Between bands and states*, by Susan A. Gregg (ed.), pp. 135-158. Carbondale, IL: Southern Illinois University at Carbondale, Center for Archaeological Investigations, Occasional Paper No. 9.
  - 1992 Mobility/sedentism: concepts, archaeological measures, and effects. *Annual Review of Anthropology* 21:43-66.
  - 2010 A good start: a comment on "Special section: intergenerational wealth transmission and inequality in premodern societies". *Current Anthropology* 51(1):109-110.
- Kenrick, J.
- 2005 "Equalising processes, processes of discrimination and the Forest People of Central Africa", in *Property and equality*, Vol. 2: *encapsulation, commercialization, discrimination*, by Thomas Widlok & Wolde Gossa Tadesse (eds.), pp. 104-128. Oxford: Berghahn.
- Kent, S.
- 1993a Sharing in an egalitarian Kalahari community. *Man* (N.S.) 28(3):479-514.
  - 1993b Variability in faunal assemblages: the influence of hunting skill, sharing, dogs, and mode of cooking on faunal remains at a sedentary Kalahari community. *Journal of Anthropological Archaeology* 12(4):323-385.
  - 1995a Unstable households in a stable Kalahari community in Botswana. *American Anthropologist* (N.S.) 97(2):297-312.
  - 1995b How egalitarian is gender egalitarianism among different Kalahari foraging societies? Paper presented at the 94<sup>th</sup> Annual Meeting of the American Anthropological Association, Washington, DC, 15-19 November, 1995.
  - 1999 "Egalitarianism, equality, and equitable power", in *Manifesting power: gender and the interpretation of power in archaeology*, by Tracy L. Sweely (ed.), pp. 30-48. London: Routledge.
- Kitamura, K.
- 1996 Egalitarian societies and the notion of nostalgia. *Journal of African Studies* 48:19-34.
- Layton, R. & Rowley-Conwy, P.
- 2013 Wild things in the north? Hunter-gatherers and the tyranny of the colonial perspective. *Anthropologie* 51(2):213-230.
- Leacock, E. B.
- 1958 Social stratification and evolutionary theory: *a symposium: introduction*. *Ethnohistory* 5(3):193-199.
  - 1977 "Women in egalitarian societies", in *Becoming visible: women in European history*, by Renate Bridenthal & Claudia Koonz (eds.), pp. 11-35. Boston, MA: Houghton Mifflin.
  - 1978 Women's status in egalitarian society: implications for social evolution. *Current Anthropologist* 19(2):247-275. (Reprinted in *Current Anthropology* Feb. 1992, 33(1):225-259)
  - 1981 "Women in an egalitarian society: the Montagnais-Naskapi of Canada", in *Myths of male dominance: collected articles on women*

- cross-culturally*, by Eleanor Burke Leacock, pp. 31-81. New York: Monthly Review Press.
- Lee, R. B.
- 1969a !Kung Bushmen. *South African Medical Journal* 43(2):48.
  - 1969b Eating Christmas in the Kalahari. *Natural History* 78(10):14-22, 60-63.
  - 1978 Politics, sexual and non-sexual in an egalitarian society. *Social Science Information* 17(6):871-895.
  - 1990 "Primitive communism and the origin of social inequality", in *The evolution of political systems: sociopolitics in small-scale sedentary societies*, by Steadman Upham (ed.), pp. 225-246. Cambridge: Cambridge University Press, School of American Research Advanced Seminar Series.
  - 2005 "Power and property in twenty-first century foragers: a critical examination", in *Property and equality, Vol. 2: encapsulation, commercialisation, discrimination*, by Thomas Widlok & Wolde Gossa Tadesse (eds.), pp. 16-31. Oxford: Berghahn.
- Legros, D.
- 1982 Réflexions sur l'origine des inégalités sociales à partir du cas des Athapaskan Tutchone. *Culture* 2(3):65-84.
- Lesure, R. G.
- 1998 The constitution of inequality in Yurok society. *Journal of California and Great Basin Anthropology* 20(2):171-194.
- Lewis, H. M., Vinicius, L., Strods, J., Mace, R. & Migliano, A. B.
- 2014 High mobility explains demand sharing and enforced cooperation in egalitarian hunter-gatherers. *Nature Communications* 5:5789.
- Lewis, J.
- 2008 *Ekila*: blood, bodies, and egalitarian societies. *Journal of the Royal Anthropological Institute* 14(2):297-315.
  - 2019 "Sharing pleasures to share rare things: hunter-gatherers' dual distribution systems in Africa", in *Towards a broader view of hunter-gatherer sharing*, by Noa Lavi & David E. Friesem (eds.), pp. 99-111. Cambridge: McDonald Institute for Archaeological Research, McDonald Institute Conversations.
- Marlowe, F.
- 2004 "Dictators and ultimatums in an egalitarian society of hunter-gatherers: the Hadza of Tanzania", in *Foundations of human sociality: economic experiments and ethnographic evidence from fifteen small-scale societies*, by Joseph Henrich, Robert Boyd, Samuel Bowles, Colin Camerer, Ernst Fehr & Herbert Gintis (eds.), pp. 168-193. Oxford: Oxford University Press.
- Marquardt, W. H.
- 1988 "Politics and production among the Calusa of south Florida", in *Hunters and gatherers, Vol. 1: history, evolution and social change*, by Tim Ingold, David Riches & James Woodburn (eds.), pp. 161-188. Oxford: Berg, Explorations in Anthropology.
- Morris, B.
- 2013 Anarchism, individualism and South Indian foragers: memories and reflections. *Radical Anthropology* 7:22-37.
- O'Neill, S.
- 2014 "Exploring hunter-gatherer-fisher complexity on the Pacific Northwest

- Coast of North America”, in *The Oxford handbook of the archaeology and anthropology of hunter-gatherers*, by Vicki Cummings, Peter Jordan & Marek Zvelebil (eds.), pp. 991-1009. Oxford: Oxford University Press, Oxford Handbooks in Archaeology.
- Peng, Y.  
2016 The evidence of proximity: tattoo practices of the Baka in southeastern Cameroon. *Hunter Gatherer Research* 2(1):63-95.
- Pilling, A. R.  
1968 “Southeastern Australia: level of social organization”, in *Man the hunter*, by Richard B. Lee & Irven DeVore (eds.), pp. 138-145. Chicago, IL: Aldine.
- Power, C.  
2015 Hadza gender rituals - *epeme* and *maitoko* - considered as counterparts. *Hunter Gatherer Research* 1(3):333-358.
- Ready, E. & Power, E. A.  
2018 Why wage-earners hunt: food sharing, social structure, and influence in an Arctic mixed economy. *Current Anthropology* 59(1):74-97.
- Renshaw, J.  
1988 Property, resources and equality among the Indians of the Paraguayan Chaco. *Man* (N.S.) 23(2):334-352.
- Riches, D.  
2005 “Space-time, ethnicity, and the limits of Inuit and New Age egalitarianism”, in *Property and equality*, Vol. 1: *ritualisation, sharing, egalitarianism*, by Thomas Widlok & Wolde Gossa Tadesse (eds.), pp. 62-76. Oxford: Berghahn.
- Rudge, A.  
2019 Laughing when you shouldn't: being “good” among the Batek of Peninsular Malaysia. *American Ethnologist* 46(3):290-301.
- Sahlins, M. D.  
2008 *The Western illusion of human nature: with reflections on the long history of hierarchy, equality and the sublimation of anarchy in the West, and comparative notes on other conceptions of the human condition*. Chicago, IL: Prickly Paradigm Press, Prickly Paradigm No. 32. 112 p.
- Schäfer, M., Haun, D. B. M. & Tomasello, M.  
2015 Fair is not fair everywhere. *Psychological Science* 26(8):1252-1260.
- Schulting, R.  
2014 “Hunter-gatherer diet, subsistence, and foodways”, in *The Oxford handbook of the archaeology and anthropology of hunter-gatherers*, by Vicki Cummings, Peter Jordan & Marek Zvelebil (eds.), pp. 1266-1287. Oxford: Oxford University Press, Oxford Handbooks in Archaeology.
- Sharp, H. S.  
1994 “The power of weakness”, in *Key issues in hunter-gatherer research*, by Ernest S. Burch, Jr. & Linda J. Ellanna (eds.), pp. 35-58. Oxford: Berg, Explorations in Anthropology.
- Smith, E. A., Borgerhoff Mulder, M., Bowles, S. & Hill, K.  
2011 Wealth inequality in foraging, horticultural, pastoral, and agricultural populations: a reply to Caldararo. *Current Anthropology* 52(4):579-580.

- Smith, E. A., Hill, K., Marlowe, F. W., Nolin, D., Wiessner, P., Gurven, M., Bowles, S., Borgerhoff Mulder, M., Hertz, T. & Bell, A.  
 2010 Wealth transmission and inequality among hunter-gatherers. *Current Anthropology* 51(1):19-34.
- Speth, J. D.  
 1988 “Nutritional aspects of food sharing in egalitarian foraging societies”, in *Diet and subsistence: current archaeological perspectives*, by Brenda V. Kennedy & Genevieve M. LeMoine (eds.), pp. 108-114. Calgary: Archaeological Association, University of Calgary.  
 1990 Seasonality, resource stress, and food sharing in so-called “egalitarian” foraging societies. *Journal of Anthropological Archaeology* 9(2):148-188.
- Storrie, R.  
 2003 Equivalence, personhood and relationality: processes of relatedness among the Hoti of Venezuelan Guiana. *The Journal of the Royal Anthropological Institute* 9(3):407-428.
- Sugawara, K.  
 2004 “The modern history of Japanese studies on the San hunter-gatherers”, in *Hunter-gatherers in history, archaeology and anthropology*, by Alan Barnard (ed.), pp. 115-128. Oxford: Berg.  
 2005 “Possession, equality and gender relations in |Gui discourse”, in *Property and equality*, Vol. 1: *ritualisation, sharing, egalitarianism*, by Thomas Widlok & Wolde Gossa Tadesse (eds.), pp. 105-129. Oxford: Berghahn.
- Svensson, E. I.  
 2009 Understanding the egalitarian revolution in human social evolution. *Trends in Ecology and Evolution* 24(5):233-235.
- Tadesse, W. G.  
 2005 “Introduction”, in *Property and equality*, Vol. 2: *encapsulation, commercialization, discrimination*, by Thomas Widlok & Wolde Gossa Tadesse (eds.), pp. 1-15. Oxford: Berghahn.
- Terashima, H.  
 2005 “Knowledge about plant medicine and practice among the Ituri forest foragers”, in *Property and equality*, Vol. 1: *ritualisation, sharing, egalitarianism*, by Thomas Widlok & Wolde Gossa Tadesse (eds.), pp. 47-61. Oxford: Berghahn.
- Tonkison, R.  
 1988 “‘Ideology and domination’ in Aboriginal Australia: a Western Desert test case”, in *Hunters and gatherers*, Vol. 2: *property, power and ideology*, by Tim Ingold, David Riches & James Woodburn (eds.), pp. 150-164. Oxford: Berg, *Explorations in Anthropology*.  
 2005 “Individual creativity and property-power disjunction in an Australian desert society”, in *Property and equality*, Vol. 1: *ritualisation, sharing, egalitarianism*, by Thomas Widlok & Wolde Gossa Tadesse (eds.), pp. 32-46. Oxford: Berghahn.
- Townsend, C.  
 2015 Baka ritual flow diverted. *Hunter Gatherer Research* 1(2):197-224.
- Weig, D.  
 2015a Social change mirrored in Baka dance and movement. *Hunter Gatherer Research* 1(1):61-83.



- 2015b From mobility to motility: changes in Baka mobilities and sociality in north-eastern Gabon. *Hunter Gatherer Research* 1(4):421-444.
- Widlok, T.  
 1998 Unearthing culture: Khoisan funerals and social change. *Anthropos* 93(1/3):115-126.  
 2005 "Introduction", in *Property and equality*, Vol. 1: *ritualisation, sharing, egalitarianism*, by Thomas Widlok & Wolde Gossa Tadesse (eds.), pp. 1-17. Oxford: Berghahn.
- Widlok, T. & Tadesse, W. G. (eds.)  
 2005a *Property and equality*, Vol. 1: *ritualisation, sharing, egalitarianism*. Oxford: Berghahn. 228 p.  
 2005b *Property and equality*, Vol. 2: *encapsulation, commercialization, discrimination*. Oxford: Berghahn. 266 p.
- Wiessner, P.  
 1996 "Leveling the hunter: constraints on the status quest in foraging societies", in *Food and the status quest: an interdisciplinary perspective*, by Polly W. Wiessner & Wulf Schiefenhövel (eds.), pp. 171-191. Oxford: Berghahn.  
 1998 On emergency decisions, egalitarianism, and group selection. *Current Anthropology* 39(3):356-358.
- Woodburn, J.  
 1979 "Minimal politics: the political organization of the Hadza of North Tanzania", in *Politics in leadership: a comparative perspective*, by William A. Shack & Percy S. Coehn (eds.), pp. 244-266. Oxford: Clarendon Press.  
 1982 Egalitarian societies. *Man* (N.S.) 17(3):431-451.  
 2005 "Egalitarian societies revisited", in *Property and equality*, Vol. I: *ritualisation, sharing, egalitarianism*, by Thomas Widlok & Wolde Gossa Tadesse (eds.), pp. 18-31. Oxford: Berghahn.
- Ziker, J. P., Rasmussen, J. & Nolin, D. A.  
 2016 Indigenous Siberians solve collective action problems through sharing and traditional knowledge. *Sustainability Science* 11(1):45-55.