

**Appendix 1** - Regional land use studies in Inner Mongolia: topics, methods, materials, and sustainability dimensions. For bibliographic references, see text.

Author	Publication year/s	Land use topic	Method	Materials	Sustainability dimension
Ao M et al.	2008, 2009	vegetation+biodiversity	empirical analysis	field experiment	ENV
Bai Y et al.	2004, 2010	vegetation+biodiversity	empirical analysis	field experiment	ENV
Brogaard S et al.	2002, 2005a	policy+governance	empirical analysis	survey	SOC
Brogaard S et al.	2005b	biomass production	modelling	field experiment	ENV
Buckley R et al.	2008	tourism	theory	literature	SOC
Chang I-S et al.	2011	bioenergy	review+statistics	literature+survey	ECO+SOC+ENV
Chen J et al.	2007, 2008	vegetation+biodiversity	GIS+statistics	spatial data	ENV
Chen S et al.	2005, 2007	carbon	empirical analysis	field experiment	ENV
Chen W et al.	2011, 2013	GHG emission	empirical analysis	field experiment	ENV
Dickinson D & Webber M	2007	policy+governance	empirical analysis	survey	SOC+ECO
Dong J et al.	2011a, 2011b, 2012	land use change	GIS+statistics	spatio-temporal data	ENV
Gao T et al.	2003, 2012, 2013	wind erosion	empirical analysis	spatio-temporal data	ENV
Gao YZ et al.	2008, 2011	vegetation+biodiversity	empirical analysis	field experiment	ENV
Hao Y et al.	2007, 2008	vegetation	empirical analysis	field experiment	ENV
He J et al.	2009, 2013	soil properties	empirical analysis	field experiment	ENV
Hoffmann C et al.	2008a, 2008b, 2008c, 2011	wind erosion	GIS+statistics	field experiment	ENV
Holst J et al.	2007a, 2007b	GHG emission	empirical analysis	field experiment	ENV
Jiang H	2005, 2006	policy+governance	review	literature	ECO+SOC+ENV
Kang X et al.	2011	carbon	modelling	field experiment	ENV
Lee Kwan C	2010	bioenergy	review	literature	ENV
Li A et al.	2012	land use change	GIS+statistics	spatial data	ENV
Li C et al.	2008, 2009	vegetation+soil	empirical analysis	field experiment	ENV
Li FR et al.	2003, 2004, 2005	wind erosion	empirical analysis	field experiment	ENV
Li W & Huntsinger L	2011	policy+governance	review+statistics	literature+survey	ECO+SOC+ENV
Li Y et al.	2011	soil properties	empirical analysis	field experiment	ENV
Li Y-H et al.	2008	vegetation+biodiversity	empirical analysis	field experiment	ENV
Lin L et al.	2012	sheep grazing	empirical analysis	field experiment	ENV
Lin Y et al.	2010	vegetation	empirical analysis	field experiment	ENV
Liu C et al.	2007	GHG emission	empirical analysis	field experiment	ENV
Liu J et al.	2012	bioenergy	empirical analysis	field experiment	ENV
Lu N et al.	2011	vegetation+soil	empirical analysis	field experiment	ENV
Lü X-T & Han X-G	2010	vegetation+soil	empirical analysis	field experiment	ENV

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Miao H et al.	2009	vegetation	empirical analysis	field experiment	ENV
Peng Q et al.	2011a, 2011b	soil properties	empirical analysis	field experiment	ENV
Qi YC et al.	2007, 2010, 2012	soil properties	empirical analysis	field experiment	ENV
Qiao G et al.	2009	policy+governance	empirical analysis	survey	SOC+ECO
Reiche M et al.	2012	wind erosion	GIS+statistics	field experiment	ENV
Reszkowska A et al.	2011	soil properties	empirical analysis	field experiment	ENV
Schönbach P et al.	2009	vegetation+biodiversity	empirical analysis	field experiment	ENV
Shao C et al.	2008	soil properties	empirical analysis	field experiment	ENV
Shiyomi M et al.	2011	biomass production	modelling	secondary data	ENV
Su Y-Z et al.	2006	soil properties	empirical analysis	field experiment	ENV
Wan H et al.	2011	vegetation+biodiversity	empirical analysis	field experiment	ENV
Wang S et al.	2002	yield+fertilisation	empirical analysis	field experiment	ENV
Wang YF et al.	2011	GHG emission	empirical analysis	field experiment	ENV
Wang Z-P et al.	2005, 2008	GHG emission	empirical analysis	field experiment	ENV
Wei Y et al.	2009	water pollution	modelling	secondary data	ENV+ECO
Wilske B et al.	2009	vegetation	empirical analysis	field experiment	ENV
Zhang LX et al.	2007	land use systems	empirical analysis	secondary data	ENV+ECO
Zhang MA et al.	2007	culture	theory	literature	SOC+ENV
Zhang TH et al.	2004	wind erosion	empirical analysis	field experiment	ENV
Zhang W	1998	vegetation+biodiversity	empirical analysis	field experiment	ENV
Zhang W & Skarpe C	1996	vegetation+biodiversity	empirical analysis	field experiment	ENV
Zhang WL et al.	2007	carbon	empirical analysis	field experiment	ENV
Zhang X et al.	2009	culture	review	secondary data	ECO+SOC+ENV
Zhang X et al.	2001	bioenergy	review	secondary data	ENV
Zhao HL et al.	2004, 2005, 2006a, 2006b, 2007a, 2007b, 2009, 2013	vegetation+soil	empirical analysis	field experiment	ENV
Zhao W et al.	2009	vegetation	empirical analysis	field experiment	ENV
Zhao WZ et al.	2005	vegetation+soil	empirical analysis	field experiment	ENV
Zhao Y et al.	2007, 2010, 2011	soil properties	empirical analysis	field experiment	ENV
Zhen L et al.	2010	household consumption	empirical analysis	survey	SOC+ECO