

# Xingguo Han

## List of Publications by Citations

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304  
papers

13,564  
citations

59  
h-index

101  
g-index

319  
ext. papers

16,524  
ext. citations

5.7  
avg, IF

6.4  
L-index

#	Paper	IF	Citations
304	Ecosystem stability and compensatory effects in the Inner Mongolia grassland. <i>Nature</i> , <b>2004</b> , 431, 181-4	50.4	804
303	Tradeoffs and thresholds in the effects of nitrogen addition on biodiversity and ecosystem functioning: evidence from inner Mongolia Grasslands. <i>Global Change Biology</i> , <b>2010</b> , 16, 358-372	11.4	504
302	Primary production and rain use efficiency across a precipitation gradient on the Mongolia Plateau. <i>Ecology</i> , <b>2008</b> , 89, 2140-53	4.6	479
301	Grassland ecosystems in China: review of current knowledge and research advancement. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2007</b> , 362, 997-1008	5.8	368
300	Ecology. Three-Gorges Dam--experiment in habitat fragmentation?. <i>Science</i> , <b>2003</b> , 300, 1239-40	33.3	289
299	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , <b>2020</b> , 7, 225	8.2	256
298	The Three Gorges Dam: an ecological perspective. <i>Frontiers in Ecology and the Environment</i> , <b>2004</b> , 2, 241-248	3.48	247
297	Temperature and soil moisture interactively affected soil net N mineralization in temperate grassland in Northern China. <i>Soil Biology and Biochemistry</i> , <b>2006</b> , 38, 1101-1110	7.5	216
296	Grazing-induced reduction of natural nitrous oxide release from continental steppe. <i>Nature</i> , <b>2010</b> , 464, 881-4	50.4	206
295	Linking stoichiometric homeostasis with ecosystem structure, functioning and stability. <i>Ecology Letters</i> , <b>2010</b> , 13, 1390-9	10	202
294	Grazing alters ecosystem functioning and C:N:P stoichiometry of grasslands along a regional precipitation gradient. <i>Journal of Applied Ecology</i> , <b>2012</b> , 49, 1204-1215	5.8	184
293	Positive linear relationship between productivity and diversity: evidence from the Eurasian Steppe. <i>Journal of Applied Ecology</i> , <b>2007</b> , 44, 1023-1034	5.8	178
292	Aridity threshold in controlling ecosystem nitrogen cycling in arid and semi-arid grasslands. <i>Nature Communications</i> , <b>2014</b> , 5, 4799	17.4	162
291	Nitrogen deposition weakens plant-microbe interactions in grassland ecosystems. <i>Global Change Biology</i> , <b>2013</b> , 19, 3688-97	11.4	157
290	Increased temperature and precipitation interact to affect root production, mortality, and turnover in a temperate steppe: implications for ecosystem C cycling. <i>Global Change Biology</i> , <b>2010</b> , 16, 1306-1316	11.4	146
289	Restoration and management of the Inner Mongolia grassland require a sustainable strategy. <i>Ambio</i> , <b>2006</b> , 35, 269-70	6.5	135
288	Genotypic differences in leaf biochemical, physiological and growth responses to ozone in 20 winter wheat cultivars released over the past 60 years. <i>Global Change Biology</i> , <b>2008</b> , 14, 46-59	11.4	133

287	Carbon and nitrogen store and storage potential as affected by land-use in a <i>Leymus chinensis</i> grassland of northern China. <i>Soil Biology and Biochemistry</i> , <b>2008</b> , 40, 2952-2959	7.5	132
286	Convergent responses of nitrogen and phosphorus resorption to nitrogen inputs in a semiarid grassland. <i>Global Change Biology</i> , <b>2013</b> , 19, 2775-84	11.4	129
285	Stoichiometric homeostasis of vascular plants in the Inner Mongolia grassland. <i>Oecologia</i> , <b>2011</b> , 166, 1-10	2.9	128
284	The ameliorative effect of silicon on soybean seedlings grown in potassium-deficient medium. <i>Annals of Botany</i> , <b>2010</b> , 105, 967-73	4.1	122
283	Comparing physiological responses of two dominant grass species to nitrogen addition in Xilin River Basin of China. <i>Environmental and Experimental Botany</i> , <b>2005</b> , 53, 65-75	5.9	117
282	Energy balance and partition in Inner Mongolia steppe ecosystems with different land use types. <i>Agricultural and Forest Meteorology</i> , <b>2009</b> , 149, 1800-1809	5.8	116
281	Habitat-specific patterns and drivers of bacterial diversity in China's drylands. <i>ISME Journal</i> , <b>2017</b> , 11, 1345-1358	11.9	111
280	Non-Additive Effects of Water and Nitrogen Addition on Ecosystem Carbon Exchange in a Temperate Steppe. <i>Ecosystems</i> , <b>2009</b> , 12, 915-926	3.9	107
279	Soil carbon and nitrogen stores and storage potential as affected by land-use in an agro-pastoral ecotone of northern China. <i>Biogeochemistry</i> , <b>2007</b> , 82, 127-138	3.8	104
278	A novel soil manganese mechanism drives plant species loss with increased nitrogen deposition in a temperate steppe. <i>Ecology</i> , <b>2016</b> , 97, 65-74	4.6	103
277	Nitrogen and water availability interact to affect leaf stoichiometry in a semi-arid grassland. <i>Oecologia</i> , <b>2012</b> , 168, 301-10	2.9	90
276	Rapid plant species loss at high rates and at low frequency of N addition in temperate steppe. <i>Global Change Biology</i> , <b>2014</b> , 20, 3520-9	11.4	88
275	Nitrogen response efficiency increased monotonically with decreasing soil resource availability: a case study from a semiarid grassland in northern China. <i>Oecologia</i> , <b>2006</b> , 148, 564-72	2.9	88
274	Environmental changes drive the temporal stability of semi-arid natural grasslands through altering species asynchrony. <i>Journal of Ecology</i> , <b>2015</b> , 103, 1308-1316	6	87
273	Nutrient resorption responses to water and nitrogen amendment in semi-arid grassland of Inner Mongolia, China. <i>Plant and Soil</i> , <b>2010</b> , 327, 481-491	4.2	85
272	Higher precipitation strengthens the microbial interactions in semi-arid grassland soils. <i>Global Ecology and Biogeography</i> , <b>2018</b> , 27, 570-580	6.1	83
271	Annual methane uptake by temperate semiarid steppes as regulated by stocking rates, aboveground plant biomass and topsoil air permeability. <i>Global Change Biology</i> , <b>2011</b> , 17, 2803-2816	11.4	83
270	Differential responses of litter decomposition to increased soil nutrients and water between two contrasting grassland plant species of Inner Mongolia, China. <i>Applied Soil Ecology</i> , <b>2006</b> , 34, 266-275	5	81

269	Litter decomposition and nutrient release as affected by soil nitrogen availability and litter quality in a semiarid grassland ecosystem. <i>Oecologia</i> , <b>2010</b> , 162, 771-80	2.9	80
268	Aerobic methane emission from plants in the Inner Mongolia steppe. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 62-8	10.3	80
267	Nitrogen enrichment weakens ecosystem stability through decreased species asynchrony and population stability in a temperate grassland. <i>Global Change Biology</i> , <b>2016</b> , 22, 1445-55	11.4	80
266	Do rhizome severing and shoot defoliation affect clonal growth of <i>Leymus chinensis</i> at ramet population level?. <i>Acta Oecologica</i> , <b>2004</b> , 26, 255-260	1.7	78
265	Winter-grazing reduces methane uptake by soils of a typical semi-arid steppe in Inner Mongolia, China. <i>Atmospheric Environment</i> , <b>2007</b> , 41, 5948-5958	5.3	77
264	Nitrogen resorption from senescing leaves in 28 plant species in a semi-arid region of northern China. <i>Journal of Arid Environments</i> , <b>2005</b> , 63, 191-202	2.5	76
263	Strategies to alleviate poverty and grassland degradation in Inner Mongolia: intensification vs production efficiency of livestock systems. <i>Journal of Environmental Management</i> , <b>2015</b> , 152, 177-82	7.9	75
262	Plasticity in leaf and stem nutrient resorption proficiency potentially reinforces plant-soil feedbacks and microscale heterogeneity in a semi-arid grassland. <i>Journal of Ecology</i> , <b>2012</b> , 100, 144-150 <sup>6</sup>		75
261	N balance and cycling of Inner Mongolia typical steppe: a comprehensive case study of grazing effects. <i>Ecological Monographs</i> , <b>2013</b> , 83, 195-219	9	74
260	Global change effects on plant communities are magnified by time and the number of global change factors imposed. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 17867-17873	11.5	69
259	Changes in carbon and nitrogen in soil particle-size fractions along a grassland restoration chronosequence in northern China. <i>Geoderma</i> , <b>2009</b> , 150, 302-308	6.7	69
258	Response of the abundance of key soil microbial nitrogen-cycling genes to multi-factorial global changes. <i>PLoS ONE</i> , <b>2013</b> , 8, e76500	3.7	68
257	Predicting plant diversity based on remote sensing products in the semi-arid region of Inner Mongolia. <i>Remote Sensing of Environment</i> , <b>2008</b> , 112, 2018-2032	13.2	68
256	Biophysical regulations of carbon fluxes of a steppe and a cultivated cropland in semiarid Inner Mongolia. <i>Agricultural and Forest Meteorology</i> , <b>2007</b> , 146, 216-229	5.8	68
255	Respiratory substrate availability plays a crucial role in the response of soil respiration to environmental factors. <i>Applied Soil Ecology</i> , <b>2006</b> , 32, 284-292	5	68
254	N <sub>2</sub> O emission from the semi-arid ecosystem under mineral fertilizer (urea and superphosphate) and increased precipitation in northern China. <i>Atmospheric Environment</i> , <b>2008</b> , 42, 291-302	5.3	66
253	Stoichiometric homeostasis predicts plant species dominance, temporal stability, and responses to global change. <i>Ecology</i> , <b>2015</b> , 96, 2328-35	4.6	65
252	Land use affects the relationship between species diversity and productivity at the local scale in a semi-arid steppe ecosystem. <i>Functional Ecology</i> , <b>2006</b> , 20, 753-762	5.6	64

251	Ecosystem Traits Linking Functional Traits to Macroecology. <i>Trends in Ecology and Evolution</i> , <b>2019</b> , 34, 200-210	10.9	64
250	Effects of long-term grazing on the morphological and functional traits of <i>Leymus chinensis</i> in the semiarid grassland of Inner Mongolia, China. <i>Ecological Research</i> , <b>2009</b> , 24, 99-108	1.9	63
249	Cultivation and grazing altered evapotranspiration and dynamics in Inner Mongolia steppes. <i>Agricultural and Forest Meteorology</i> , <b>2009</b> , 149, 1810-1819	5.8	63
248	The counteractive effects of nitrogen addition and watering on soil bacterial communities in a steppe ecosystem. <i>Soil Biology and Biochemistry</i> , <b>2014</b> , 72, 26-34	7.5	59
247	Complementarity in water sources among dominant species in typical steppe ecosystems of Inner Mongolia, China. <i>Plant and Soil</i> , <b>2011</b> , 340, 303-313	4.2	59
246	Microbial N Turnover and N-Oxide (N <sub>2</sub> O/NO/NO <sub>2</sub> ) Fluxes in Semi-arid Grassland of Inner Mongolia. <i>Ecosystems</i> , <b>2007</b> , 10, 623-634	3.9	59
245	China's new rural separating three property rights land reform results in grassland degradation: Evidence from Inner Mongolia. <i>Land Use Policy</i> , <b>2018</b> , 71, 170-182	5.6	57
244	Poplar plantation has the potential to alter the water balance in semiarid Inner Mongolia. <i>Journal of Environmental Management</i> , <b>2009</b> , 90, 2762-70	7.9	57
243	Seasonal variations in nitrogen mineralization under three land use types in a grassland landscape. <i>Acta Oecologica</i> , <b>2008</b> , 34, 322-330	1.7	57
242	Methane emissions from the trunks of living trees on upland soils. <i>New Phytologist</i> , <b>2016</b> , 211, 429-39	9.8	57
241	Scale-dependent effects of climate and geographic distance on bacterial diversity patterns across northern China's grasslands. <i>FEMS Microbiology Ecology</i> , <b>2015</b> , 91,	4.3	56
240	Nonadditive effects of litter mixtures on decomposition and correlation with initial litter N and P concentrations in grassland plant species of northern China. <i>Biology and Fertility of Soils</i> , <b>2007</b> , 44, 211-216	6.1	56
239	Mechanisms of soil acidification reducing bacterial diversity. <i>Soil Biology and Biochemistry</i> , <b>2015</b> , 81, 275-281	7.8	55
238	Responses of Soil Bacterial Communities to Nitrogen Deposition and Precipitation Increment Are Closely Linked with Aboveground Community Variation. <i>Microbial Ecology</i> , <b>2016</b> , 71, 974-89	4.4	55
237	Nitrogen addition regulates soil nematode community composition through ammonium suppression. <i>PLoS ONE</i> , <b>2012</b> , 7, e43384	3.7	55
236	Environmental changes affect the assembly of soil bacterial community primarily by mediating stochastic processes. <i>Global Change Biology</i> , <b>2016</b> , 22, 198-207	11.4	54
235	Soil characteristics and nitrogen resorption in <i>Stipa krylovii</i> native to northern China. <i>Plant and Soil</i> , <b>2005</b> , 273, 257-268	4.2	53
234	Exacerbated nitrogen limitation ends transient stimulation of grassland productivity by increased precipitation. <i>Ecological Monographs</i> , <b>2017</b> , 87, 457-469	9	52

233	Plant nitrogen uptake drives responses of productivity to nitrogen and water addition in a grassland. <i>Scientific Reports</i> , <b>2014</b> , 4, 4817	4.9	51
232	Diurnal variation in methane emissions in relation to plants and environmental variables in the Inner Mongolia marshes. <i>Atmospheric Environment</i> , <b>2005</b> , 39, 6295-6305	5.3	51
231	On the Nature of Environmental Gradients: Temporal and Spatial Variability of Soils and Vegetation in the New Jersey Pinelands. <i>Journal of Ecology</i> , <b>1997</b> , 85, 785	6	50
230	Mitigating methane emission from paddy soil with rice-straw biochar amendment under projected climate change. <i>Scientific Reports</i> , <b>2016</b> , 6, 24731	4.9	50
229	Asymmetric sensitivity of ecosystem carbon and water processes in response to precipitation change in a semi-arid steppe. <i>Functional Ecology</i> , <b>2017</b> , 31, 1301-1311	5.6	49
228	Effects of grassland conversion to croplands on soil organic carbon in the temperate Inner Mongolia. <i>Journal of Environmental Management</i> , <b>2008</b> , 86, 529-34	7.9	49
227	Testing the growth rate hypothesis in vascular plants with above- and below-ground biomass. <i>PLoS ONE</i> , <b>2012</b> , 7, e32162	3.7	49
226	Effects of water and nitrogen addition on species turnover in temperate grasslands in northern China. <i>PLoS ONE</i> , <b>2012</b> , 7, e39762	3.7	48
225	Changes in carbon and nitrogen of Chernozem soil along a cultivation chronosequence in a semi-arid grassland. <i>European Journal of Soil Science</i> , <b>2009</b> , 60, 916-923	3.4	47
224	Nonlinear responses of ecosystem carbon fluxes and water-use efficiency to nitrogen addition in Inner Mongolia grassland. <i>Functional Ecology</i> , <b>2016</b> , 30, 490-499	5.6	47
223	LIVE AND DEAD ROOTS IN FOREST SOIL HORIZONS: CONTRASTING EFFECTS ON NITROGEN DYNAMICS. <i>Ecology</i> , <b>1997</b> , 78, 348-362	4.6	46
222	Grazing intensity impacts soil carbon and nitrogen storage of continental steppe. <i>Ecosphere</i> , <b>2011</b> , 2, art8	3.1	45
221	Storage and dynamics of carbon and nitrogen in soil after grazing exclusion in <i>Leymus chinensis</i> grasslands of northern China. <i>Journal of Environmental Quality</i> , <b>2008</b> , 37, 663-8	3.4	45
220	Hierarchical responses of plant stoichiometry to nitrogen deposition and mowing in a temperate steppe. <i>Plant and Soil</i> , <b>2014</b> , 382, 175-187	4.2	44
219	Climate and ecosystem <sup>15</sup> N natural abundance along a transect of Inner Mongolian grasslands: Contrasting regional patterns and global patterns. <i>Global Biogeochemical Cycles</i> , <b>2009</b> , 23, n/a-n/a	5.9	44
218	Responses of soil microbial functional genes to global changes are indirectly influenced by aboveground plant biomass variation. <i>Soil Biology and Biochemistry</i> , <b>2017</b> , 104, 18-29	7.5	43
217	Feedback of grazing on gross rates of N mineralization and inorganic N partitioning in steppe soils of Inner Mongolia. <i>Plant and Soil</i> , <b>2011</b> , 340, 127-139	4.2	43
216	Temporal and spatial variability and controls of soil respiration in a temperate steppe in northern China. <i>Global Biogeochemical Cycles</i> , <b>2010</b> , 24, n/a-n/a	5.9	43

215	Nitrogen fertilization and fire act independently on foliar stoichiometry in a temperate steppe. <i>Plant and Soil</i> , <b>2010</b> , 334, 209-219	4.2	43
214	Mowing exacerbates the loss of ecosystem stability under nitrogen enrichment in a temperate grassland. <i>Functional Ecology</i> , <b>2017</b> , 31, 1637-1646	5.6	42
213	Plants alter their vertical root distribution rather than biomass allocation in response to changing precipitation. <i>Ecology</i> , <b>2019</b> , 100, e02828	4.6	42
212	Widespread non-microbial methane production by organic compounds and the impact of environmental stresses. <i>Earth-Science Reviews</i> , <b>2013</b> , 127, 193-202	10.2	42
211	Plant nutrients do not covary with soil nutrients under changing climatic conditions. <i>Global Biogeochemical Cycles</i> , <b>2015</b> , 29, 1298-1308	5.9	42
210	Sampling date, leaf age and root size: implications for the study of plant C:N:p stoichiometry. <i>PLoS ONE</i> , <b>2013</b> , 8, e60360	3.7	42
209	Effects of functional diversity loss on ecosystem functions are influenced by compensation. <i>Ecology</i> , <b>2016</b> , 97, 2293-2302	4.6	42
208	Climate variability decreases species richness and community stability in a temperate grassland. <i>Oecologia</i> , <b>2018</b> , 188, 183-192	2.9	42
207	Effects of prescribed burning and seasonal and interannual climate variation on nitrogen mineralization in a typical steppe in Inner Mongolia. <i>Soil Biology and Biochemistry</i> , <b>2009</b> , 41, 796-803	7.5	41
206	Effects of grazing on photosynthetic characteristics of major steppe species in the Xilin River Basin, Inner Mongolia, China. <i>Photosynthetica</i> , <b>2005</b> , 43, 559-565	2.2	41
205	Effects of grazing and climate variability on grassland ecosystem functions in Inner Mongolia: Synthesis of a 6-year grazing experiment. <i>Journal of Arid Environments</i> , <b>2016</b> , 135, 50-63	2.5	40
204	Increase in ammonia volatilization from soil in response to N deposition in Inner Mongolia grasslands. <i>Atmospheric Environment</i> , <b>2014</b> , 84, 156-162	5.3	39
203	Labile organic C and N mineralization of soil aggregate size classes in semiarid grasslands as affected by grazing management. <i>Biology and Fertility of Soils</i> , <b>2012</b> , 48, 305-313	6.1	39
202	Patterns of plant biomass allocation in temperate grasslands across a 2500-km transect in northern China. <i>PLoS ONE</i> , <b>2013</b> , 8, e71749	3.7	39
201	Physical injury stimulates aerobic methane emissions from terrestrial plants. <i>Biogeosciences</i> , <b>2009</b> , 6, 615-621	4.6	39
200	Soil phosphorus fractions, aluminum, and water retention as affected by microbial activity in an Ultisol. <i>Plant and Soil</i> , <b>1990</b> , 121, 125-136	4.2	39
199	Topography and grazing effects on storage of soil organic carbon and nitrogen in the northern China grasslands. <i>Ecological Indicators</i> , <b>2018</b> , 93, 45-53	5.8	38
198	Soil organic and inorganic carbon contents under various land uses across a transect of continental steppes in Inner Mongolia. <i>Catena</i> , <b>2013</b> , 109, 110-117	5.8	38

197	Variations in life-form composition and foliar carbon isotope discrimination among eight plant communities under different soil moisture conditions in the Xilin River Basin, Inner Mongolia, China. <i>Ecological Research</i> , <b>2005</b> , 20, 167-176	1.9	38
196	Changes in litter quality induced by N deposition alter soil microbial communities. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 130, 33-42	7.5	38
195	Experimental warming reveals positive feedbacks to climate change in the Eurasian Steppe. <i>ISME Journal</i> , <b>2017</b> , 11, 885-895	11.9	37
194	Salt tolerance during seed germination and early seedling stages of 12 halophytes. <i>Plant and Soil</i> , <b>2015</b> , 388, 229-241	4.2	37
193	Plant Trait Networks: Improved Resolution of the Dimensionality of Adaptation. <i>Trends in Ecology and Evolution</i> , <b>2020</b> , 35, 908-918	10.9	37
192	Changes in specific leaf area of dominant plants in temperate grasslands along a 2500-km transect in northern China. <i>Scientific Reports</i> , <b>2017</b> , 7, 10780	4.9	37
191	Importance of point sources on regional nitrous oxide fluxes in semi-arid steppe of Inner Mongolia, China. <i>Plant and Soil</i> , <b>2007</b> , 296, 209-226	4.2	37
190	Soil bacterial communities respond to mowing and nutrient addition in a steppe ecosystem. <i>PLoS ONE</i> , <b>2013</b> , 8, e84210	3.7	37
189	Divergent changes in plant community composition under 3-decade grazing exclusion in continental steppe. <i>PLoS ONE</i> , <b>2011</b> , 6, e26506	3.7	36
188	Variation in small-scale spatial heterogeneity of soil properties and vegetation with different land use in semiarid grassland ecosystem. <i>Plant and Soil</i> , <b>2008</b> , 310, 103-112	4.2	36
187	Lack of Evidence for 3/4 Scaling of Metabolism in Terrestrial Plants. <i>Journal of Integrative Plant Biology</i> , <b>2005</b> , 47, 1173-1183	8.3	36
186	Effects of plant functional group loss on soil biota and net ecosystem exchange: a plant removal experiment in the Mongolian grassland. <i>Journal of Ecology</i> , <b>2016</b> , 104, 734-743	6	35
185	Methane Production Explained Largely by Water Content in the Heartwood of Living Trees in Upland Forests. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2017</b> , 122, 2479-2489	3.7	34
184	Productivity depends more on the rate than the frequency of N addition in a temperate grassland. <i>Scientific Reports</i> , <b>2015</b> , 5, 12558	4.9	34
183	Contrasting responses in leaf nutrient-use strategies of two dominant grass species along a 30-yr temperate steppe grazing exclusion chronosequence. <i>Plant and Soil</i> , <b>2015</b> , 387, 69-79	4.2	34
182	The Influence of Historical Land Use and Water Availability on Grassland Restoration. <i>Restoration Ecology</i> , <b>2010</b> , 18, 217-225	3.1	34
181	Nutrient resorption helps drive intra-specific coupling of foliar nitrogen and phosphorus under nutrient-enriched conditions. <i>Plant and Soil</i> , <b>2016</b> , 398, 111-120	4.2	33
180	Plant functional diversity modulates global environmental change effects on grassland productivity. <i>Journal of Ecology</i> , <b>2018</b> , 106, 1941-1951	6	33



179	Effects of experimentally-enhanced precipitation and nitrogen on resistance, recovery and resilience of a semi-arid grassland after drought. <i>Oecologia</i> , <b>2014</b> , 176, 1187-97	2.9	33
178	Effects of nitrogen deposition rates and frequencies on the abundance of soil nitrogen-related functional genes in temperate grassland of northern China. <i>Journal of Soils and Sediments</i> , <b>2015</b> , 15, 694-704	3.1	33
177	Land use and drought interactively affect interspecific competition and species diversity at the local scale in a semiarid steppe ecosystem. <i>Ecological Research</i> , <b>2009</b> , 24, 627-635	1.9	33
176	Nutrient resorption response to fire and nitrogen addition in a semi-arid grassland. <i>Ecological Engineering</i> , <b>2011</b> , 37, 534-538	3.9	33
175	Nitrogen addition does not reduce the role of spatial asynchrony in stabilising grassland communities. <i>Ecology Letters</i> , <b>2019</b> , 22, 563-571	10	33
174	Nitrogen deposition alters soil chemical properties and bacterial communities in the Inner Mongolia grassland. <i>Journal of Environmental Sciences</i> , <b>2012</b> , 24, 1483-91	6.4	32
173	Nitrogen and water addition reduce leaf longevity of steppe species. <i>Annals of Botany</i> , <b>2011</b> , 107, 145-55	4.1	32
172	Differential responses of canopy nutrients to experimental drought along a natural aridity gradient. <i>Ecology</i> , <b>2018</b> , 99, 2230-2239	4.6	32
171	Grazing Density Effects on Cover, Species Composition, and Nitrogen Fixation of Biological Soil Crust in an Inner Mongolia Steppe. <i>Rangeland Ecology and Management</i> , <b>2009</b> , 62, 321-327	2.2	31
170	Increased precipitation induces a positive plant-soil feedback in a semi-arid grassland. <i>Plant and Soil</i> , <b>2015</b> , 389, 211-223	4.2	30
169	Quantitative assessment of bioenergy from crop stalk resources in Inner Mongolia, China. <i>Applied Energy</i> , <b>2012</b> , 93, 305-318	10.7	30
168	China's grazed temperate grasslands are a net source of atmospheric methane. <i>Atmospheric Environment</i> , <b>2009</b> , 43, 2148-2153	5.3	30
167	Intra-seasonal precipitation amount and pattern differentially affect primary production of two dominant species of Inner Mongolia grassland. <i>Acta Oecologica</i> , <b>2012</b> , 44, 2-10	1.7	29
166	Plant responses following grazing removal at different stocking rates in an Inner Mongolia grassland ecosystem. <i>Plant and Soil</i> , <b>2011</b> , 340, 199-213	4.2	28
165	Plant species effects on soil carbon and nitrogen dynamics in a temperate steppe of northern China. <i>Plant and Soil</i> , <b>2011</b> , 346, 331-347	4.2	28
164	Seasonality of soil microbial nitrogen turnover in continental steppe soils of Inner Mongolia. <i>Ecosphere</i> , <b>2012</b> , 3, art34	3.1	28
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162	Changing precipitation exerts greater influence on soil heterotrophic than autotrophic respiration in a semiarid steppe. <i>Agricultural and Forest Meteorology</i> , <b>2019</b> , 271, 413-421	5.8	27

161	Foliar nutrient resorption differs between arbuscular mycorrhizal and ectomycorrhizal trees at local and global scales. <i>Global Ecology and Biogeography</i> , <b>2018</b> , 27, 875-885	6.1	27
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157	Competition between <i>Artemisia frigida</i> and <i>Cleistogenes squarrosa</i> under different clipping intensities in replacement series mixtures at different nitrogen levels. <i>Grass and Forage Science</i> , <b>2005</b> , 60, 119-127	2.3	27
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155	Carbon and nitrogen allocation shifts in plants and soils along aridity and fertility gradients in grasslands of China. <i>Ecology and Evolution</i> , <b>2017</b> , 7, 6927-6934	2.8	26
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151	Warming and increased precipitation individually influence soil carbon sequestration of Inner Mongolian grasslands, China. <i>Agriculture, Ecosystems and Environment</i> , <b>2012</b> , 158, 184-191	5.7	25
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149	Carbon and nitrogen storage in plant and soil as related to nitrogen and water amendment in a temperate steppe of northern China. <i>Biology and Fertility of Soils</i> , <b>2011</b> , 47, 187-196	6.1	25
148	Growing season methane budget of an Inner Mongolian steppe. <i>Atmospheric Environment</i> , <b>2009</b> , 43, 3085-3095	5.3	25
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141	Isotopic carbon composition and related characters of dominant species along an environmental gradient in Inner Mongolia, China. <i>Journal of Arid Environments</i> , <b>2007</b> , 71, 12-28	2.5	24
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139	Home-field advantages of litter decomposition increase with increasing N deposition rates: a litter and soil perspective. <i>Functional Ecology</i> , <b>2017</b> , 31, 1792-1801	5.6	23
138	Carbon dioxide emission from temperate semiarid steppe during the non-growing season. <i>Atmospheric Environment</i> , <b>2013</b> , 64, 141-149	5.3	23
137	Contrasting pH buffering patterns in neutral-alkaline soils along a 3600 km transect in northern China. <i>Biogeosciences</i> , <b>2015</b> , 12, 7047-7056	4.6	23
136	Stoichiometric response of dominant grasses to fire and mowing in a semi-arid grassland. <i>Journal of Arid Environments</i> , <b>2012</b> , 78, 154-160	2.5	23
135	Effects of grazing exclusion on soil net nitrogen mineralization and nitrogen availability in a temperate steppe in northern China. <i>Journal of Arid Environments</i> , <b>2010</b> , 74, 1287-1293	2.5	23
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133	Asymmetry in above- and belowground productivity responses to N addition in a semi-arid temperate steppe. <i>Global Change Biology</i> , <b>2019</b> , 25, 2958-2969	11.4	22
132	Methane emission from small wetlands and implications for semiarid region budgets. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		22
131	Soil gross N ammonification and nitrification from tropical to temperate forests in eastern China. <i>Functional Ecology</i> , <b>2018</b> , 32, 83-94	5.6	22
130	Large-Scale Distribution of Molecular Components in Chinese Grassland Soils: The Influence of Input and Decomposition Processes. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2018</b> , 123, 239-257	2.7	21
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128	Abiotic versus biotic controls on soil nitrogen cycling in drylands along a 3200 km transect. <i>Biogeosciences</i> , <b>2017</b> , 14, 989-1001	4.6	20
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126	A threshold reveals decoupled relationship of sulfur with carbon and nitrogen in soils across arid and semi-arid grasslands in northern China. <i>Biogeochemistry</i> , <b>2016</b> , 127, 141-153	3.8	20

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113	Plant carbon limitation does not reduce nitrogen transfer from arbuscular mycorrhizal fungi to <i>Plantago lanceolata</i> . <i>Plant and Soil</i> , <b>2015</b> , 396, 369-380	4.2	16
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6	Contrasting community responses of root and soil dwelling fungi to extreme drought in a temperate grassland. <i>Soil Biology and Biochemistry</i> , <b>2022</b> , 169, 108670	7.5	0
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4	Tussock and Savanna Ecosystems. <i>Ecosystems of China</i> , <b>2020</b> , 545-583	0.1	
3	Major advances in plant ecology research in China (2020). <i>Journal of Plant Ecology</i> , <b>2021</b> , 14, 995-1001	1.7	
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1	Nitrogen enrichment affects the competition network of aboveground species on the Inner Mongolia steppe. <i>Global Ecology and Conservation</i> , <b>2021</b> , 31, e01826	2.8	