

May, 2022

Curriculum Vitae and List of Publications

LIU RENTAO

A. Curriculum Vitae

1. Personal Data

Date of Birth June 8, 1980
Place of Birth Dengzhou City, Henan province, China
Family Status Married (two children)
Nationality China
Work Address School of Ecology and Environment, Ningxia University, #489
Helanshan West Road, Yinchuan 750021, Ningxia, P.R. China
E-mail liu_rt@nxu.edu.cn; liubarilanu@gmail.com
Tel/Fax: +(0)86-(0)951-2061173 (O)

2. Education, Certificates and Degrees

From-To	Institute	Area of Specialty	Degree	Supervisor
2013-2014	The Mina & Everard Goodman Faculty of Life Sciences Bar-Ilan University, Ramat-Gan, Israel	Desert Ecology	Postdoc	Prof. Yosef Steinberger
2007-2010	Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences, China	Desert Ecology	Ph.D.	Prof. Zhao Halin
2004-2007	Shanxi Normal University, China	Plant Ecology	M.Sc.	Prof. Bi Runcheng
1999-2004	Nanyang Normal University, China	Biology Science	B.Sc.	

Doctoral Thesis: Community Structure of Soil Macro-fauna Related to Land Use and Cover Changes in Sandy Grassland

Master Thesis: Meta-population Ecology of *Elaeagnus mollis* in Shanxi, northern China

3. Positions Held

From-To	Institute	Research Area	Title
2019.12-present	Ningxia University, Yinchuan, China	Desert Ecology & Restoration Ecology	Research Professor

2017.10-11.	School of Plant Sciences and Food Security, Faculty of Life Sciences, Tel Aviv University, Israel	Restoration Ecology	Visiting Scholar
2017.1-2017.2	Forestry Ecology Bureau of Zhongwei City, Ningxia	Desert Ecology and Forestry afforestation	Vice Director
2014.11-2019.12	Ningxia University, Yinchuan, China	Desert Ecology & Restoration Ecology	Research Associate
2010.7-2014.11	Ningxia University, Yinchuan, China	Desert Ecology & Restoration Ecology	Research Assistant

4. Funding Sources

From-To	Funding Agency	Title
2024-2027	National Natural Science Foundation (32360318)	Effect of ant diversity on soil multifunctionality in revegetated regions in Tengger desert
2022-2026	Project for Scientific Innovative Team (2021RXTDLX01)	Ecology and hydrology in arid regions
2021-2023	Ningxia Key Program for Scientific Research and Development (2021BEG03007)	The underlying mechanism of land degradation in desert-oasis zones and the adapting models for ecological restoration in arid regions
2020-2023	Ningxia Natural Science Foundation (2020AAC02014)	Effect of interaction of ant activity and soil microarthropods on ecological restoration of revegetation system in arid Tengger desert
2022-2023	Ningxia Natural Science Foundation (2021AAC03047)	Effect of soil microarthropods in shrub microhabitats on litter decomposition under grazing management
2021-2025	Project of Helanshan candidates of Ningxia University	Academic and technical leaders' foundation
2019-2023	Project of Young talent candidates of State level in Ningxia (2018010)	Academic and technical leaders' foundation
2019-2022	National Natural Science Foundation (41867005)	Effect of vegetation restoration on soil faunal diversity distribution following revegetation within straw checkboard in Tengger Desert
2018-2020	Science Research Project of Ningxia Higher Education for Excellent Young Teachers (NGY2018007)	Changes of soil-vegetation system following stabilization of mobile sand land by straw checkboard of different

		materials in Tengger Desert
2018-2020	Ningxia Natural Science Foundation (2018AAC02004)	Ecological effectiveness of stabilization of mobile sand land after long-term afforested practices in Tengger Desert
2018-2020	Specialized Foundation for Innovative Platform of Fundamental Condition Construction in Ningxia Science and Technology (2018DPC05021)	Promotion project of Arid Soil Biology Lab. of Ningxia University
2017-2020	Project of Western First-Class Discipline Construction in Ecology of Ningxia University (NXYLXK2017B06)	Cultivation project for High-level achievement production in Restoration Ecology
2016-2018	Joint Project of CAS "Light of West China" Program and Ningxia Key Research Program (XAB2016AW02)	Contribution of soil faunal distribution beneath shrub canopy to litter decomposition process
2016-2018	Ningxia "Science and Technology Project for Overseas" Program (201649405)	Effect of conversion of cropland into forest and grassland on land production in agro-pasture zone
2017-2020	National Natural Science Foundation (41661054)	Effectiveness of shrub cover on soil faunal diversity distribution in desertified region
2016-2019	Fok Ying-Tong Education Foundation-Ministry of Education, China (151103)	Effect of soil faunal distribution beneath shrub canopy following age chronosequent on litter decomposition
2015-2017	Ningxia Natural Science Foundation (NZ15025)	Ecological effectiveness of expressway on soil faunal diversity beneath shrub canopy in desertified region
2015-2017	Science Research Project of Ningxia Higher Education for Excellent Young Teachers (NGY2015053)	Effect of conversion of cropland into forest and grassland on soil-vegetation system in desert steppe
2016-2016	Specialized Foundation for High-level conference of Ningxia University	International Symposium on Soil Biota and Desert Ecology
2012-2014	National Natural Science Foundation of China (41101050)	Responses of soil faunal community to rainfall changes in desert steppe
2011-2013	Science Research Project for Ningxia Higher Education (NJY2011021)	Effect of enclosure on soil faunal diversity in sandy grassland
2014-2015	Open Fund for Key Lab. of Desert and Desertification of CAS (KLDD2014003)	Changes of soil faunal diversity along climate gradient

5. Achievements

Time	Award
2024	1st Prize in Natural Science of Ningxia, China
2021	2nd Prize in 15th Excellent Papers in Natural Science of Ningxia, China
2020	3rd Prize in 8nd Excellent Youth Papers in Liangxi Forestry Science and Technology
2017	1st Prize in 15th Excellent Papers in Natural Science of Ningxia, China
2017	Excellent Worker for Scientific research in Ningxia University
2017	3rd Prize in 6nd Excellent Youth Papers in Liangxi Forestry Science and Technology
2017	1st Prize in 14nd Excellent Papers in Natural Science of Ningxia, China
2015	1st Prize in 13nd Excellent Papers in Natural Science of Ningxia, China
2013	Scholarship from CSC and KORT Fund in Bar-Ilan University, Israel
2013	1st Prize in 12nd Excellent Papers in Natural Science of Ningxia, China
2010	Chinese Grassland Society “Wangdong” Scholarship and the Outstanding Graduate Student award, China
2009	Chinese Academy of Sciences “Zhuli Yuehua” Scholarship and the Outstanding Graduate Student Award, China
2006	Awarded 3rd Prize in Graduate Paper competition of Seven Provinces in North China, China

6. Fieldwork experience

2015-present	Field work in Mu Us sandy land, Ult desert steppe, and Tengger Desert
2013-2014	Four-season field work in Negev desert, Israele.
May-October, 2011-2013	Three-year field work in Mu Us sandy land, Ningxia.
May-October, 2007-2010	Four-year field work in Horqin sandy land, Inner Mongolia.
May- October, 2005 and 2006	Two-year field investigation in Taiyue Mountain, Shanxi.

7. Public Scientific Activities

Time	Type of Activity
June, 2023	The 6th International EcoSummit Congress
Jan, 2022	Forum on Ecology-environment Discipline Development and Student cultivation in New Times.
July, 2021	Symposium on Ecology Protection and High-quality Development of Ningxia
November, 2020	Symposium on Mountains, Rivers, Forests, Fields, Lakes, Grass and Sand
November, 2018	Symposium on Desertification and Ecological Restoration
October, 2018	Symposium of Desert Division of Geographical Society of China
November, 2016	International Symposium on Soil Biota and Desert Ecology

July, 2016	Symposium of Desert Division of Geographical Society of China
November, 2014	Selected poster presentation in The International Conference on Drylands, Deserts and Desertification (DDD), Sede Boke, Israel.
March- June, 2013	Advanced English Class, International Studies University, Xi'an, China
August, 2011	Lake-Wetland-Watershed Ecological Protection and "3S", Nanchang, Jiangxi, China
June, 2011	International Forum on Frontier of Present Steppe Ecology, Huhhte, Inner Mongolia, China
June, 2010	Soil Ecology, Advanced Ecology Class, Fudan University, Shanghai

8. Research interests

- a. Grassland soil faunal diversity and ecological functioning.
- b. The linkage of belowground and aboveground diversity and their response to rainfall changes.
- c. Ecological restoration of land desertification and soil quality assessment.

B. List of Publications

Books

1. **Liu Rentao**, Zhao Halin, Zhao Xueyong, Liu Xinmin. 2015. Distribution of Soil faunal community in Horqin sand land. Beijing: Science Press.
2. **Liu Rentao**. 2015. Ecology of Soil Fauna in a Desertified System. Beijing: Science Press.
3. **Liu Rentao**. 2016. Research Method for Soil Faunal Ecology. Beijing: Science Press.
4. **Liu Rentao**. 2020. Distribution of Soil Faunal Diversity in Desert Steppe. Beijing: Science Press.

Patent

1. **Liu Rentao**, Tang Ximing, Shang Mengyu, Zheng Yaoqiang. 2017. Precise Tool for Seeding Afforestation in Desert by means of Water Conductivity. Number: 2017201842262.
2. **Liu Rentao**, Shang Mengyu, Zheng Yaoqiang. 2017. New Tool for Seed sowing in desert soils. Number: 2017204489942.
3. **Liu Rentao**, Zhao Juan, Xi Weihua, Liu Jianan. 2016. A Conveniently Reformed Extraction Equipment for Soil fauna. Number: 2016210761713
4. **Liu Rentao**, Xi Weihua, Liu Jianan, Zhao Juan. Manual and Automatic Switching Reformed Extraction Equipment for Soil fauna. Number: 2016210760848.

Technique regulation

1. **Liu Rentao**, Liu Jianan, Xi Weihua, Zhao Juan, Chen Lin, Hou Jingwei, Shang Mengyu. 2017. Technique regulation on soil profile investigation in desertified grassland. DB64/T 1200-2016. Issued date: 2017.03.28.
2. **Liu Rentao**, Zhou Haiyan, Fan Hengwen, Chai Yongqing, Xia Xinglei. 2016. Technique regulation on shrub and grass seeding afforestation in mobile sand land (dunes). Issued date: 2016.09.02.

Peer-reviewed papers

In English

2024

- [1] Jiancai Sun, **Rentao Liu***, Yosef Steinberger, Zhimin Yang, Lei Zhou, Zhixia Guo, Wenzhi Zhao. Grazing reduces shrub-facilitated diversity of ground-dwelling arthropods in semiarid ecosystems. *Ecological Indicators*, with editor after revision
- [2] Jiancai Sun, **Rentao Liu***, Zhimin Yang, Marcelo Sternberg*. Effects of shrub microhabitats on taxonomic and functional diversity of soil microarthropods under grazing regimes in desertified regions. *Applied Soil Ecology*. with editor after revision
- [3] Guan Qingsong, Zhou Yiqiao, Li Shuo, Yang F, **Liu Rentao***. 2024. Denitrification and Anammox and Feammox in the Yinchuan Yellow River wetland. *Plant, Soil and Environment*, 2024, 70(11):731-738.
- [4] Xu Hongwei, Qu Qing, Yang, Jiaping, Wang, Zhen, Wang, Minggang, **Liu, Rentao**, Xue, Sha. 2024. Impact of drought on terrestrial ecosystem C-N-P stoichiometry and microbial nutrient limitation. *Soil & Tillage Research*, 236: 105951.

2023

- [5] Zhong Zekun, Wang Xing, Yang Gaihe, Han Xinhui, Zhu Lin, **Liu Rentao***. 2023. Short-term warming-induced increase in non-microbial carbon emissions from semiarid abandoned farmland soils. *Global Ecology and Conservation*, 47: e02676
- [6] **Rentao Liu*** and Yang Bing. 2023. Editorial: soil microbe-arthropod interactions under global change. *Frontiers in Microbiology*, 14:1280103.
- [7] Qing Qu, Zhen Wang, Quan Gan, **Rentao Liu***, Hongwei Xu. 2023. Impact of drought on soil

microbial biomass and extracellular enzyme activity. *Frontiers Plant Science*, 14:1221288.

- [8] Rongjie Wu, Bingqing Liu, Bin Xue, Ruili Gao, George M. Ndzana, **Rentao Liu**, Juying Huang, Hui An, Lingtong Du, Muhammad Kamran. 2023. Changes in soil organic carbon and nutrient pools in aggregate-sized fractions along a chronosequence of wolfberry (*Lycium barbarum* L.) plantations in arid areas of Northwest China. *Soil Use and Management*, 39(3): 1109-1124.
- [9] Zekun Zhong, Xing Wang, **Rentao Liu**, Dejie Kong, Haojie Nie, Xinhui Han, Gaihe Yang, Lin Zhu. 2023. Soil bacteria respond intensely to resource limitations regulated by edaphic properties during secondary succession on a semiarid abandoned farmland. *Catena*, 223: 106944.

2022

- [10] Bingqing Liu, Ruili Gao, George Martial Ndzana, Hui An, Juying Huang, **Rentao Liu**, Lingtong Du, Muhammad Kamran, Bin Xue. 2022. Nutrient addition affects stability of soil organic matter and aggregate by altering chemical composition and exchangeable cations in desert steppe in northern China. *Land Degradation & Development*, 34(5): 1430-1446.
- [11] Zhixia Guo, Haitao Chang, **Rentao Liu***. 2022. Response of soil microarthropod community to seasonal changes in Urat desert steppe, Inner Mongolia. *Frontiers in Environmental Sciences*, 10:893913.
- [12] **Rentao Liu**, Zhixia Guo, Yosef Steinberger*. 2022. Differential responses of ground-active arthropod abundance and diversity to shrub afforestation in heterogeneous textured soils in desertified grassland ecosystems, North China. *Sciences of the Total Environments*, 829: 154631.
- [13] Anning Zhang, **Rentao Liu***, Marcelo Sternberg. 2022. Shrub facilitation effects on plant litter arthropods community increase with increasing aridity in desertified ecosystems in China. *Journal of Arid Environments*, 200: 104724.
- [14] Zhixia Guo, **Rentao Liu***, Haitao Chang, Yosef Steinberger. 2022. Short-term postfire effects on ground-dwelling arthropods and soil attributes in a semiarid grassland ecosystem, northwestern China. *Polish Journal of Ecology*, 69(3-4):172-182.
- [15] Jinghua Qi, Xinrong Li, Peng Zhang, **Rentao Liu**. 2022. Biocrust nitrogenase activity responses to warming and increased drought in arid desert regions. *Geoderma*, 428: 116184.

2021

- [16] **Rentao Liu**, Haitao Chang, Yosef Steinberger. 2021. Postfire effects on ground-active arthropods and soil attributes in a semiarid grassland ecosystem, northwestern China. *Polish Journal of Ecology*, 139(3):137-147.
- [17] Li Xinrong, Hui Rong, Tan Huijuan, Zhao Y, **Liu Rentao**, Song Naiping (2021) Biocrust Research in China: Recent Progress and Application in Land Degradation Control. *Frontiers in Plant Science*, 12:751521.
- [18] Xiaoan Zuo, Shenglong Zhao, Huan Cheng, Ya Hu, Shaokun Wang, Ping Yue, **Rentao Liu**, Alan K. Knapp, Melinda D. Smith, Qiang Yu, Sally E. Koerner. 2021. Functional diversity response to geographic and experimental precipitation gradients varies with plant community type. *Functional Ecology*, 00:1-14.

2020

- [19] Anning Zhang, **Rentao Liu***, Huang Lei*. 2020. Effect of shrub revegetation on ground-active arthropod diversity and trophic structure in Tengger desert. *European Journal of Soil Biology*, 101(C):103246.
- [20] **Rentao Liu**, Yael Navon, Yosef Steinberger, Marcelo Sternberg. 2020. Effects of rainfall manipulations versus natural rainfall gradient on plant litter arthropods in desert and Mediterranean ecosystems. *Applied Soil Ecology*, 156(12):103716.
- [21] Wei Chen, Haitao Chang, **Rentao Liu***. 2020. Fractal features of soil particle size distribution and the implication for indicating enclosure management in semiarid grassland. *Polish Journal of Ecology*, 68(2):133-145.

2019

- [22] Eugene Marais, Gillian Maggs-Kolling, Chen Sherman, Tirza Doniger, **Rentao Liu**, Binu Tripathi, Yosef Steinberger. 2019. Profiling soil free-living nematodes in the Namib Desert, Namibia. *Journal of Arid Land*, 11(6):1-14.
- [23] Jinchang Li, Qi Yao, Yuan Wang, **Rentao Liu**, Hong Zhang. 2019. Grain-size characteristics of surface sediments of nebkhas at the southern margin of the Mu Us dune field, China. *Catena*, 183, 104210.
- [24] Ping-Chun Lucy Hou, Haochiang Chien, **Rentao Liu***, Yosef Steinberger*. 2019. Litter spider

communities and their effect on arthropods and decomposing rates in Nanjenshan Rain Forest, Taiwan. *Polish Journal of Ecology*, 67(3):208-222.

- [25] Stanislav Pen-Mouratov, Roi Meller, **Rentao Liu**, Yosef Steinberger. 2019. The impact of animal trampling on free-living nematode abundance, genera, and trophic diversity was attenuated by tree canopies. *Journal of Life Sciences*, 13(1):12-33.
- [26] **Rentao Liu**, Roi Meller, Yosef Steinberger. 2019. Changes in a soil microarthropod community in the vicinity of dominant tree species under trampling management at the Safari Zoological Center, Israel. *Acarologia*, 59(1): 33-45.
- [27] **Rentao Liu**, Yosef Steinberger, Jingwei Hou, Juan Zhao, Jianan Liu, Haitao Chang, Jing Zhang, Yaxi Luo. 2019. Conversion of cropland into agroforestry land versus naturally-restored grassland alters soil macro-faunal diversity and trophic structure in the semi-arid agro-pasture zone of northern China. *Journal of Arid Land*, 11(2): 306-317.

2018

- [28] Hui Jin, Xiaoyan Yang, **Rentao Liu**, Zhiqiang Yan, Xudong Li, Xiuzhuang Li, Anxiang Su, Yuhui Zhao, Bo Qin. 2018. Bacterial community structure associated with the rhizosphere soils and roots of *Stellera chamaejasme* L. along a Tibetan elevation gradient. *Annals of Microbiology*, 68:273-286.
- [29] **Rentao Liu**, Haggai Wasserstrom, Roi Meller, Yosef Steinberger. 2018. Ground-active arthropod response to distance from the Mediterranean seashore in coastal sand areas of western Israel. *Arid Land Research and Management*, 32:316-336.
- [30] **Rentao Liu**, Yosef Steinberger. 2018. Seasonal changes of distribution and diversity of ground-active arthropods between shrub microhabitats in the Negev Desert, Israel. *Arid Land Research and Management*, 32:91-110.
- [31] Stanislav Pen-Mouratov, Yosef Steinberger, Roi Meller, Nosir Shukurove, **Rentao Liu**. 2018. Free-living nematodes as the best biological tools for assessing soil disturbances. The 12th International Symposium of the Russian Society of Nematologists, July 31-August 6, 2017, Nizhny Novgorod Russia.

2017

- [32] Jinchang Li, Yanfang Zhao, Liuyan Han, Guoming Zhang, **Rentao Liu**. 2017. Moisture variation inferred from a nebkha profile correlates with vegetation changes in the southwestern

Mu Us Desert of China over one century. *Science of The Total Environment*, 598(15): 797-804.

- [33] **Rentao Liu**, Weihua Xi, Zhimin Yang. 2017. Shrub size affects the density and diversity recovery of ground-active arthropods in desertified grassland ecosystem. *Polish Journal of Ecology*, 65(3): 224-236.

2016

- [34] Stanislav Pen-Mouratov, Roi Meller, **Rentao Liu**, Yosef Steinberger. 2016. Animal trampling effects on soil free-living nematodes in a man-made safari-zoo habitat. The 32nd European Society of Nematologists (ESN) Symposium. 28 August-1 September 2016, Braga, Portugal.
- [35] **Rentao Liu**, Stanislav Pen-Mouratov, Yosef Steinberger. 2016. Shrub cover expressed as an 'arthropod island' in xeric environments. *Arthropod-Plant Interactions*, 10(5):393-402.
- [36] **Rentao Liu**, Fan Zhu. 2016. Effect of afforested shrubs on ground-dwelling arthropod diversity and trophic structure in desertified grassland ecosystems. *Scientia Silvae Sinicae*, 52(2):91-98.
- [37] **Rentao Liu**, Fan Zhu, Yosef Steinberger. 2016. Ground-active arthropod responses to rainfall-induced dune microhabitats in a desertified steppe ecosystem. *Journal of Arid Land*, 8(4):632-646.
- [38] **Rentao Liu**, Fan Zhu, Yosef Steinberger. 2016. Changes in ground-dwelling arthropods diversity related to the proximity of shrub cover in a desertified system. *Journal of Arid Environments*, 124(C): 172-179.
- [39] Jingwei Hou, Xingang Fan, **Rentao Liu**. 2016. Optimal spatial allocation of irrigation water under uncertainty using the bilayer nested optimisation algorithm and geospatial technology. *International Journal of Geographical Information Science*, 30(12):2462-2485.

2015

- [40] **Rentao Liu**, Fan Zhu, Yosef Steinberger. 2015. Effect of shrub microhabitats on aboveground and belowground arthropod distribution in a desertified steppe ecosystem. *Polish Journal of Ecology*, 63(4):534-348.
- [41] **Rentao Liu**, Fan Zhu, Mingxiu Yang. 2015. Biomass and water partitioning in two age-related artificial *Caragana korshinskii* plantations in desert steppe, northern China. *Sciences in Cold and Arid Regions*, 7(3): 0238–0244.
- [42] **Rentao Liu**, Fan Zhu, Yosef Steinberger. 2015. Effectiveness of afforested shrub plantation on ground-active arthropod communities and trophic structure in desertified regions. *Catena*,

125:1-9.

2014

- [43] **Rentao Liu**, Fan Zhu, Hui An, Yosef Steinberger. 2014. Effect of naturally vs manually restored management on ground-dwelling arthropod communities in a desertified region. *Ecological Engineering*, 73:545-552.
- [44] Halin Zhao, Jin Li, **Rentao Liu**, Ruilian Zhou, Hao Qu, Chengchen Pan. 2014. Effects of desertification on temporal and spatial distribution of soil macro-arthropods in Horqin sandy grassland, Inner Mongolia. *Geoderma*, 223-225:62-67.

2013

- [45] **Rentao Liu**, Fan Zhu, Naiping Song, Xinguo Yang, Yongqing Chai. 2013. Seasonal distribution and diversity of ground arthropods in microhabitats following a shrub age sequence in desertified steppe. *PLoS ONE*, 8(10): e77962.
- [46] **Rentao Liu**, Halin Zhao, Xueyong Zhao, Fan Zhu. 2013. Effect of cultivation and grazing exclusion on the soil macrofaunal community of semi-arid sandy grasslands in northern China. *Arid Land Research and Management*, 27(4): 377-393.
- [47] **Rentao Liu**, Halin Zhao, Xueyong Zhao. 2013. Soil macro-faunal communities along a cultivated cropland chronosequence in semi-arid agro-pastoral ecosystems, northern China. *Fresenius Environmental Bulletin*, 22(4):1203-1211.
- [48] **Rentao Liu**, Halin Zhao, Xueyong Zhao. 2013. Changes in soil macrofaunal community composition under selective afforestation in shifting sand lands in Horqin of Inner Mongolia, northern China. *Ecological Research*, 28:1-8.
- [49] Halin Zhao, Tonghui Zhang, **Rentao Liu**. 2013. Effects of land cover changes on soil arthropod community in Horqin Sand Land, China. *Journal of Life Sciences and Technologies*, 1(2):112-117.
- [50] Halin Zhao, **Rentao Liu**. 2013. The “bug island” effect of shrubs and its formation mechanism in Horqin Sand Land, Inner Mongolia. *Catena*, 105:69-74.

2012

- [51] **Rentao Liu**, Halin Zhao, Xueyong Zhao. 2012. Influences of grazing exclusion on soil macro-invertebrate diversity in degraded sandy grassland (Inner Mongolia, China). *Polish Journal of Ecology*, 60:375-385.

2011

- [52] **Rentao Liu**, Halin Zhao, Xueyong Zhao, Sam Drake. 2011. Facilitative effects of shrubs in shifting sand on soil macro-faunal community in Horqin Sand Land of Inner Mongolia, Northern China. *European Journal of Soil Biology*, 47(5):316-321
- [53] **Rentao Liu**. Response of population dynamics to fragmented habitat in an endangered, long-lived shrub (*Elaeagnus mollis* Diels.). EPLWW3S 2011: 2011 International Conference on Ecological Protection of Lakes-wetlands-watershed and Application of 3S. JUN 25-26, 2011. Nanchang, China.
- [54] **Rentao Liu**, Halin Zhao, Xueyong Zhao. 2011. Desertification impact on macro-invertebrate diversity in grassland soil in Horqin, northern China. *Procedia Environmental Sciences*, 10:1401-1409

2010

- [55] Luo Yayong, Zhao Xueyong, Zuo Xiaolan, Zhang Jinghui, **Liu Rentao**, Wang, Shaokun. 2010. Leaf nitrogen resorption pattern along habitats of semi-arid sandy land with different nitrogen status. *Polish Journal of Ecology*, 58:707-716

2009

- [56] **Rentao Liu**, Halin Zhao, Xueyong Zhao, Sam Drake. 2009. Soil macrofaunal response to sand dune conversion from mobile dune to fixed dune in Horqin Sandy Land, North China. *European Journal of Soil Biology*, 45, 417-422.
- [57] **Rentao Liu**, Halin Zhao, Xueyong Zhao. 2009. Effect of vegetation restoration on ant nest-building activities following dune stabilization in Horqin Sandy Land, North China. *Land Degradation and Development*, 20: 562-571.
- [58] **Rentao Liu**, Runcheng Bi, Halin Zhao. 2009. Biomass partitioning and water content at the branch and whole-plant levels and as a function of plant size in *Elaeagnus mollis* populations in Shanxi province. *Acta Ecologica Sinica*, 29(2):139-143

2008

- [59] **Rentao Liu**, Runcheng Bi, Halin Zhao. 2008. Mathematical simulations of the relationship between height and DBH of *Juglans mandshurica* population in Taiyue Forest Region. *Journal of Biomathematics*, 23(3): 416-422.
- [60] **Rentao Liu**, Runcheng Bi, Halin Zhao. 2008. Dust removal property of major afforested plants

in and around an urban area, North China. *Journal of Ecology and Environment*, 17(5): 1879-1886.

Youth Editorial Board: *Journal of Desert Research, Sciences in Cold and Arid Regions, Chinese Geographical Sciences, Scientia Silvae Sinicae.*