# Curriculum Vitae

Lingqing Wang, Ph.D.
Associate Professor/Associate Director
Environmental Sciences
Institute of Geographic Sciences and Natural Resources Research
Chinese Academy of Sciences
Tel/Fax: +86-10-64888993
Address: Rm3742, 11A Datun Road, Chaoyang District, Beijing, 100101 China
Email：wanglq@igsnrr.ac.cn
Homepage:
http://www.igsnrr.cas.cn/sourcedb_igsnrr_cas/zw/zjrck/ysdw_fyjy/yjdw_ldbc/201706/t20170613_4811834.html
https://scholar.google.com/citations?user=d8vKeWIAAAAJ&hl=zh-CN

---

## RESEARCH INTERESTS

My research interests focus on environmental Sciences, especially in the areas of environmental fate of rare earth elements (REEs), contaminants (such as heavy metal elements, fluoride and natural radionuclides) and nutrients (especially phosphorus) within soils, sediments, and surface waters.

## EDUCATION

- Sept. 1999-July 2003, College of Tourism and Environment, Shaanxi Normal University, Xi'an
  B.S, Major: Geography
- Sept. 2004-July 2007, College of Tourism and Environment, Shaanxi Normal University, Xi'an
  M.S, Major: Environmental Science
  Master dissertation: Analysis of heavy metal contamination and chemical speciation in farmland soil in the suburbs of Xi'an
- Sept. 2007-July 2010, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing
  Ph.D, Major: Environmental Science
  Doctoral dissertation: Experimental study of using rare earth elements to trace the agricultural non-point source phosphorus loss

## RESEARCH EXPERIENCE

- July 2010 - Current, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences
- Oct. 2015 - Feb. 2016, University of California, Los Angeles (UCLA), Professor Yifang Zhu's Lab, Visiting scholar
- Mar. 2016 - Oct. 2016, University of Massachusetts Amherst (UMass Amherst), Professor Baoshan Xing's Lab, Visiting scholar

## PERSONAL INFORMATION

Date of Birth: 02 May 1981 Gender: Male
Place of Birth: Qinghai Province Citizenship: People's Republic of China

## LANGUAGES

- ✧ Monguor (Native)
- ✧ Chinese (Proficiency)
- ✧ English (Proficiency)

## INTERNATIONAL CONFERENCES

- ❑ Sino-European Symposium on Environment and Health, Galway, Ireland, August 20-25, 2012; Co-Chair of Session: Bioavailability and bio-accessibility.
- ❑ 2nd International Conference on Bioresources, Energy, Environment, and Materials Technology, Gangwon Province, Korea, June 10-13, 2018; Presentation: Rare earth element composition and geochemical implications in surface sediments from Dongting Lake, Middle China.
- ❑ The 3rd International Conference on Bioresources, Energy, Environment and Materials Technology, Hongkong, June 12-15, 2019. Presentation: Co-adsorption of zinc and chlortetracycline onto montmorillonite at different pH.
- ❑ International Society of Limnology XXXIV Congress, Nanjing, China, August 19-24, 2018; Presentation: Geochemistry and provenance discrimination of sediment-related rare earth elements in lake.
- ❑ The First International Conference on Biochar Research and Application, Shenyang, China, September 20-23, 2019.

## PATENTS

- ❑ **Lingqing Wang**, Tao Liang. Method for using rare earth elements to trace the agricultural nonpoint source phosphorus loss. China Patent (Patent No ZL201210558688.6, application date 22.07.2015).
- ❑ Qian Zhang, Tao Liang, **Lingqing Wang**. Application of Solid Phase Extraction (SPE) using cross-linked starch based polymer as material. China Patent (Patent No ZL201310293871.2, application date 22.04.2015).
- ❑ **Lingqing Wang**, Zhiping Yang. An integrated device of soil erosion protection. China Patent (Patent No ZL201520607496.9, application date 12.08.2015).

## BOOKS

- ❑ Yukui Rui, Hong Liu, **Lingqing Wang**, Xin Gui, Junli Li, Xuguang Li, Jian Hu, Jie Jin, Chuanxin Ma. Agricultural Ecotoxicology of Nanomaterials. China Agricultural University Press.
- ❑ **Lingqing Wang**, Guangying Li, Yuejun He, Jingsong Ge. Investigation and analysis of current situation and recommendation of applicable processes for urban wastewater treatment plants in Qinghai province. China Environment Publishing Group.

## POLICY REPORTS

- ❑ **Lingqing Wang**, Xiaoyong Liao, Xiaonan Duan, Tao Liang, 2019. The proposal of stopping large-scale agricultural use of rare earth products.
- ❑ Tao Liang, **Lingqing Wang**, 2015. Analysis and control of the environmental pollution of Baotou rare earth tailings dam.

## HONORS / AWARDS

- ❑ **Lingqing Wang**. Outstanding Research Award for Graduate Students of Shaanxi Normal University 2005-2006, 2006-2007
- ❑ **Lingqing Wang**. Outstanding Postgraduate Scholarship of Shaanxi Normal University (2006)
- ❑ **Lingqing Wang**. Outstanding Graduate Student of Shaanxi Normal University (2007)
- ❑ **Lingqing Wang**. Merit Student from the Graduate School of the Chinese Academy of Sciences (2010)
- ❑ Xinwei Lu, Lijun Wang, **Lingqing Wang**, Xiaolan Zhang, Fengling Wang, Xiaodan Jia, Lei Kai, Xiaopeng Yang, 2015. Second Prize of Shaanxi Science and Technology Award, Coal Trace Element Composition and Coal Environmental Impact Study, Certificate No. 14-2-91-R3.

## MEMBERSHIPS / AFFILIATIONS

- The International Society of Limnology (SIL)
- The Geographical Society of China (GSC)
- Technical Expert of Global Environment Facility (GEF)
- Technical Expert of Soil Pollution remediation of Jiangxi Province, China
- Editorial board member of Journal of Water Science and Engineering (ISSN 2688-1292)
- Peer reviewer of scientific journals Journal of Hazardous Materials, Science of the Total Environment, Environmental Pollution, Chemosphere, Environmental Research, etc.

## PUBLICATIONS

**(1)** Bo Yu, Xinwei Lu*, Xinyao Fan, Peng Fan, Ling Zuo, Yufan Yang, **Lingqing Wang***. Spatial distribution, pollution level, and health risk of Pb in the finer dust of residential areas: a case study of Xi'an, northwest China. Environ Geochem Health, 2022，DOI:10.1007/s10653-021-01116-5.

**(2)** **Lingqing Wang**, Xiaoxiao Han, Tao Liang*, Xiulan Yan, Xiao Yang, Zhiguo Pei, Shuhan Tian, Shengsen Wang, Eder C. Lima, Jörg Rinklebe. Insight into cosorption mechanisms of Zn(II) and chlortetracycline on montmorillonite at different pH using EXAFS. *Journal of Hazardous Materials*, 2022, 424, 127368. DOI:10.1016/j.jhazmat.2021.127368

**(3)** Linlin Dong, Xiao Yang, Linlin Shi, Yuan Shen, Lingqing Wang*, Jidong Wang, Chuanzhe Li, Haidong Zhang**. Biochar and nitrogen fertilizer co-application changed SOC content and fraction composition in Huang-Huai-Hai plain, China. *Chemosphere*, 2022, 132925. DOI::10.1016/j.chemosphere.2021.132925

**(4)** Yazhu Wang, Xuejun Duan*, Tao Liang, Lei Wang, **Lingqing Wang***. Analysis of spatio-temporal distribution characteristics and socioeconomic drivers of urban air quality in China. *Chemosphere*, 2022, 10.1016/j.chemosphere.2021.132799

**(5)** Siyu Wang, **Lingqing Wang**, Yizhong Huan, Rui Wang, Tao Liang*. Concentrations, spatial distribution, sources and environmental health risks of potentially toxic elements in urban road dust across China. *Science of The Total Environment*, 2022, 805，150266. DOI: 10.1016/j.scitotenv.2021.150266.

**(6)** Zirui Luo1，Bin Yao1, Xiao Yang, **Lingqing Wang**, Zhangyi Xu, Xiulan Yan*, Lin Tian, Hao Zhou, Yaoyu Zhou*. Novel insights into the adsorption of organic contaminants by biochar: A review. *Chemosphere*, 2022, 287:132113. DOI: 10.1016/j.chemosphere.2021.132113.

**(7)** Xiaohong Zhao, Miaomiao Tong, Yuejun He, Xiuru Han, **Lingqing Wang***. A comprehensive, locally adapted soil quality indexing under different land uses in a typical watershed of the eastern Qinghai-Tibet Plateau. *Ecological Indicators*, 2021, 125, 107445. DOI: 10.1016/j.ecolind.2021.107445.

**(8)** Yuejun He, Xiuru Han*, Xueping Wang, **Lingqing Wang***, Tao Liang. Long-term ecological effects of two artificial forests on soil properties and quality in the eastern Qinghai-Tibet Plateau. *Science of The Total Environment*, 2021, 796：148986. DOI: 10.1016/j.scitotenv.2021.148986

**(9)** Jun Xiao, **Lingqing Wang***, Ningpan Chai, Ting Liu, Zhangdong Jin, Jörg Rinklebe. Groundwater hydrochemistry, source identification and pollution assessment in intensive industrial areas, eastern Chinese Loess Plateau. *Environmental Pollution*, 2021, 278，116930. DOI: 10.1016/j.envpol.2021.116930.

**(10)** Bo Yu, Xinwei Lu*, Xinyao Fan, Peng Fan, Ling Zuo, Yufan Yang, **Lingqing Wang***. Analyzing environmental risk, source and spatial distribution of potentially toxic elements in dust of residential area in Xi'an urban area, China. *Ecotoxicology and Environmental Safety*, 2021, 208, 111679. DOI: 10.1016/j.ecoenv.2020.111679

**(11)** Xiaoxiao Han, Jun Xiao, **Lingqing Wang***, Shuhan Tian, Tao Liang, Yujie Liu. Identification of areas vulnerable to soil erosion and risk assessment of phosphorus loss in a typical watershed in the Loess Plateau. *Science of the Total Environment*, 2021, 758：143661. DOI: 10.1016/j.scitotenv.2020.143661

**(12)** Jun Xiao, Xiaoxiao Han, Shouqin Sun, **Lingqing Wang***, Jörg Rinklebe. Heavy metals in different moss species in alpine ecosystems of Mountain Gongga, China: Geochemical characteristics and controlling factors. *Environmental Pollution*, 2021, 272，115991. DOI:10.1016/j.envpol.2020.115991

**(13)** Yuejun He, Xiaoxiao Han, Jingsong Ge, **Lingqing Wang***. Multivariate statistical analysis of potentially toxic elements in soils under different land uses: spatial relationship, ecological risk assessment, and source identification. Environmental Geochemistry and Health，2021，DOI:10.1007/s10653-021-00992-1.

**(14)** Xiaohong Zhao, Wenshan Zhang, Yuejun He, **Lingqing Wang*,** Wei Li, Liwei Yang, Guohua Xing. Phytotoxicity of $Y_2O_3$ nanoparticles and $Y^{3+}$ ions on rice seedlings under hydroponic culture. *Chemosphere*, 2021, 263:127943.

**(15)** Linlin Dong1, Jidong Wang1, Mingxing Shen, Haidong Zhang, **Lingqing Wang***, Chuanzhe Li, Changying Lu*. Biochar combined with nitrogen fertilizer affects soil properties and wheat yield in medium-low yield farmland. *Soil Use and Management*，2021，00:1-12. DOI: 10.1111/sum.12712.

**(16)** Wenchu Zhao, Xiao Yang*, Aixi Feng, Xiulan Yan*, **Lingqing Wang**, Tao Liang, Juan Liu, Huansong Ma, Yaoyu Zhou. Distribution and migration characteristics of dinitrotoluene sulfonates (DNTs) in typical TNT production sites: Effects and health risk assessment. *Journal of Environmental Management*, 2021, 287, 112342. DOI: 10.1016/j.jenvman.2021.112342

**(17)** Hanyou Xie, Jing Li*, Yitao Zhang, Xiangbo Xu, **Lingqing Wang,** Zhu Ouyang. Evaluation of coastal farming under salinization and optimized fertilization strategies in China. *Science of the Total Environment*, 2021, 797:149038. DOI: 10.1016/j.scitotenv.2021.149038.

**(18)** Haidong Zhang, **Lingqing Wang**, Ting Tian，Jianghai Yin*. A review of unmanned aerial vehicle low-altitude remote sensing (uav-lars) use in agricultural monitoring in China. *Remote Sensing*, 2021, 13(6), 1221. DOI: 10.3390/rs13061221

**(19)** Weili Wang*, Cai Lin, **Lingqing Wang**, Ronggen Jiang, Yang Liu, Hui Lin，Jinmin Chen. Effects of human activities on the spatial distribution, ecological risk and sources of PTEs in coastal sediments. *International Journal of Environmental Research and Public Health*, 2021, 18, 12476. doi.org/10.3390/ijerph182312476.

**(20)** Pingfan Zhou, Peng Zhang, Manlin Guo,Mingshu Li, **Lingqing Wang**, Muhammad Adeel, Noman Shakoor, Yukui Rui*. Effects of age on mineral elements, amino acids and fatty acids in Chinese chestnut fruits. European Food Research and Technology, 2021, 247:2079–2086. DOI: 10.1007/s00217-021-03773-3

**(21)** Hongzhong Xie, Yanlei Wan, Hao Chen, Guangcheng Xiong, Lingqing Wang, Qi Xu, Xiang Li, Qiuhong Zhou*. Cr(VI) Adsorption from Aqueous Solution by UiO-66 Modified Corncob. Sustainability 2021, 13, 12962. 10.3390/su132312962

**(22)** Xueping Wang1, Aixia Chen1*, Bei Chen, **Lingqing Wang***. Adsorption of phenol and bisphenol A on river sediments: Effects of particle size, humic acid, pH and temperature. *Ecotoxicology and Environmental Safety*, 2020, 204, 111093.

**(23)** Zhan Wang, Jun Xiao, **Lingqing Wang***, Tao Liang, Qingjun Guo, Yunlan Guan, Jörg Rinklebe. Elucidating the differentiation of soil heavy metals under different land uses with geographically weighted regression and self-organizing map. *Environmental Pollution*, 2020, 260:114065. DOI: 10.1016/j.envpol.2020.114065.

**(24)** Xiaohong Zhao, Liu Han, Jun Xiao, **Lingqing Wang***, Tao Liang, Xiaoyong Liao. A comparative study of the physiological and biochemical properties of tomato (Lycopersicon esculentum M.) and maize (Zea mays L.) under palladium stress. *Science of the Total Environment*, 2020, 705:135938. DOI: 10.1016/j.scitotenv.2019.135938

**(25)** Tao Xue, Xiaoyong Liao*, **Lingqing Wang**, Xuegang Gong. Fenghua Zhao, Jinhua Ai, Yangzhu Zhang*. Effects of adding selenium on different remediation measures of paddy fields with slight-moderate cadmium contamination. *Environmental Geochemistry and Health*, 2020: 42:377-388. DOI: 10.1007/s10653-019-00365-9.

**(26)** Shuhan Tian，Kexin Li，Peter Møller，Samantha C. Ying，**Lingqing Wang**，Zhiyi Li，Martin Roursgaard*，Tao Liang*. Assessment of reactive oxygen species production and genotoxicity of rare earth mining dust: Implications for public health and mining management. Science of The Total Environment, 2020, 740: 139759. doi.: 10.1016/j.scitotenv.2020.139759.

**(27)** **Lingqing Wang***, Xiaoxiao Han, Tao Liang, Qingjun Guo, Jing Li, Lijun Dai, Shiming Ding. Discrimination of rare earth element geochemistry and co-occurrence in sediment from Poyang Lake, the largest freshwater lake in China. *Chemosphere*, 2019, 217: 851-857. DOI: 10.1016/j.chemosphere.2018.11.060

**(28)** **Lingqing Wang***, Xiaoxiao Han, Shiming Ding, Tao Liang, Yongyong Zhang, Jun Xiao*, Linlin Dong, Haidong Zhang. Geochemistry and provenance discrimination of sediment-related rare earth elements in lake combining the methods of positive matrix factorization, discriminant function, and provenance index. *Science of the Total Environment*, 2019, 672:264-274. DOI: 10.1016/j.scitotenv.2019.03.484

**(29)** Lijun Dai, **Lingqing Wang***, Tao Liang, Yongyong Zhang, Jing Li, Jun Xiao, Linlin Dong, Haidong Zhang. Geostatistical analyses and co-occurrence correlations of heavy metals distribution with various types of land use within a watershed in eastern QingHai-Tibet Plateau, China. *Science of the Total Environment*, 2019, 653, 849-859. DOI:10.1016/j.scitotenv.2018.10.386

**(30)** Jing Li, Yan Xu, **Lingqing Wang***, Fadong Li. Heavy metal occurrence and risk assessment in dairy feeds and manures from the typical intensive dairy farms in China. *Environmental Science and Pollution Research,* 2019,

26(7):6348–6358. DOI: 10.1007/s11356-019-04125-1

**(31)** Yan Chen, **Lingqing Wang***, Tao Liang, Jun Xiao, Jing Li, Haicheng Wei, Linlin Dong. Major ion and dissolved heavy metal geochemistry, distribution, and relationship in the overlying water of Dongting Lake, China. *Environmental Geochemistry and Health*, 2019, 41:1091–1104. DOI: 10.1007/s10653-018-0204-y

**(32)** Yujian Zhou, Yongyong Zhang*, Tao Liang, **Lingqing Wang**. Shifting of phytoplankton assemblages in a regulated Chinese river basin after streamflow and water quality changes. *Science of the Total Environment*, 2019, 654:948-959. DOI: 10.1016/j.scitotenv.2018.10.348

**(33)** Xiao Jun*, **Lingqing Wang**, Li Deng, Zhangdong Jin. Characteristics, sources, water quality and health risk assessment of trace elements in river water and well water in the Chinese Loess Plateau. *Science of the Total Environment*, 2019, 650, 2004-2012. 10.1016/j.scitotenv.2018.09.322

**(34)** Yan Xu, Jing Li*, Xubo Zhang, **Lingqing Wang**, Xiangbo Xu, Li Xu*, Huarui Gong, Hanyou Xie, Fadong Li. Data integration analysis: Heavy metal pollution in China's large-scale cattle rearing and reduction potential in manure utilization. *Journal of Cleaner Production*, 2019, 232: 308-317. DOI: 10.1016/j.jclepro.2019.05.337

**(35)** Zhiguo Pei, Lingyun Li, Jieli Xie, Jie Ma, **Lingqing Wang**, Bei Wen, Shuzhen Zhang, Baoshan Xing. Synergetic mediation of reduced graphene oxide and Cu (II) on the oxidation of 2-naphthol in water. *Environmental Pollution*, 2019, 252: 689-696. DOI: 10.1016/j.envpol.2019.05.126

**(36)** Yaoyao Wang, **Lingqing Wang**, Chuanxin Ma, Kexiang Wang, Yi Hao, Qing Chen, You Mo, Yukui Rui*. Effects of cerium oxide on rice seedlings as affected by co-exposure of cadmium and salt. *Environmental Pollution*, 2019, 252:1087-1096. DOI: 10.1016/j.envpol.2019.06.007

**(37)** Wunan Li, Xiaoyong Liao*, **Lingqing Wang**, Zhanbin Huang. Adsorption of cadmium and lead in wastewater by four kinds of biomass xanthates. Water Science and Technology, 2019, 79 (6): 1222-1230. DOI: 10.2166/wst.2019.124

**(38)** Qian Zhang, Guilin Han *, Man Liu, Xiaoqiang Li, **Lingqing Wang**, Bin Liang. Distribution and Contamination Assessment of soil heavy metals in the Jiulongjiang River catchment, Southeast China. International Journal of Environmental Research and Public Health, 2019, 16, 4674. DOI:10.3390/ijerph16234674

**(39)** Qian Zhang, Guilin Han*, Man Liu, **Lingqing Wang**. Geochemical characteristics of rare earth elements in soils from puding karst critical zone observatory, southwest China. Sustainability, 2019, 11, 4963. DOI:10.3390/su11184963

**(40)** Kerui Guo, Annan Hu, Kexiang Wang, **Lingqing Wang**, Dongheng Fu, Yi Hao, Yaoyao Wang, Arbab Ali, Muhammed Adeel, Yukui Rui, Weiming Tan. Effects of spraying nano-materials on the absorption of metal(loid)s in cucumber. IET Nanobiotechnology, 2019, 13(7): 712-719. DOI: 10.1049/iet-nbt.2019.0060.

**(41)** **Lingqing Wang***, Lijun Dai, Lianfang Li, Tao Liang. Multivariable cokriging prediction and source analysis of potentially toxic elements (Cr, Cu, Cd, Pb, and Zn) in surface sediments from Dongting Lake, China. *Ecological Indicators*, 2018, 94, 312-319. DOI: 10.1016/j.ecolind.2018.07.005

**(42)** Siyang Liu[1], Shuhan Tian[1], Kexin Li, **Lingqing Wang***, Tao Liang*. Heavy metal bioaccessibility and health risks in the contaminated soil of an abandoned, small-scale lead and zinc mine. *Environmental Science and Pollution Research*, 2018, 25(15):15044–15056. DOI:10.1007/s11356-018-1660-8Lijun Dai, **Lingqing Wang***, Lianfang Li, Tao Liang, Yongyong Zhang, Chuanxin Ma, Baoshan Xing. Multivariate geostatistical analysis and source identification of heavy metals in the sediment of Poyang Lake in China. *Science of the Total Environment*, 2018, 621:1433–1444. DOI:10.1016/j.scitotenv.2017.10.085

**(43)** Buqing Zhong, **Lingqing Wang***, Tao Liang, Baoshan Xing. Pollution level and inhalation exposure of ambient aerosol fluoride as affected by polymetallic rare earth mining and smelting in Baotou, North China. *Atmospheric Environment*, 2017, 167:40-48. DOI: 10.1016/j.atmosenv.2017.08.014

**(44)** Qingzhi Wang, Jiankun Liu*, **Lingqing Wang***. An experimental study on the effects of freeze-thaw cycles on phosphorus adsorption-desorption processes in brown soil. *RSC Advances*, 2017, **7**(59):37441-37446. DOI: 10.1039/c7ra05220k

**(45)** Kexin Li, Tao Liang*, **Lingqing Wang***, Shuhan Tian. Inhalation exposure and potential health risk estimation of lanthanoid elements in PM2.5 associated with rare earth mining activities - a case of Baotou city, northern China. Environmental Geochemistry and Health, 2018, 40:2795–2805. 10.1007/s10653-018-0146-4

**(46)** Haicheng Wei, Qin Yuan, Qinghai Xu, Zhanjie Qin, **Lingqing Wang**, Qishun Fan, Fashou Shan. Assessing the impact of human activities on surface pollen assemblages in Qinghai Lake Basin, China. *Journal of Quaternary*

*Science*, 2018, 33(6) 702-712. DOI: 10.1002/jqs.3046

**(47)** Linlin Dong, Haidong Zhang, **Lingqing Wang**, Dongsheng Yu, Feixia Yang, Xuezheng Shi*, Hafsa Saleemd, M. Saleem Akhtard. Irrigation with sediment-laden river water affects the soil texture and composition of organic matter fractions in arid and semi-arid areas of Northwest China. *Geoderma*, 2018, 328, 10-19. DOI: 10.1016/j.geoderma.2018.05.002

**(48)** Shuhan Tian，Tao Liang*, Kexin Li*, **Lingqing Wang**. Source and path identification of metals pollution in a mining area by PMF and rare earth element patterns in road dust. *Science of the Total Environment*, 2018, 633: 958-966. DOI: 10.1016/j.scitotenv.2018.03.227

**(49)** Yali Tong, Tao Liang, **Lingqing Wang***, Kexin Li*. Simulation on phosphorus release characteristics of Poyang Lake sediments under variable water levels and velocities. *Journal of Geographical Sciences*, 2017, 27(6):697-710. DOI:10.1007/s11442-017-1401-9

**(50)** Buqing Zhong, Elisa Giubilato，Andrea Critto, **Lingqing Wang**, Antonio Marcomini, Jinliang Zhang. Probabilistic modeling of aggregate lead exposure in children of urban China using an adapted IEUBK model. *Science of the Total Environment*, 2017, 584, 259-267. DOI: 10.1016/j.scitotenv.2016.11.164Tao Liang, Yali Tong, Xiahui Wang, **Lingqing Wang***. Reactive phosphorus release from sediments in Dongting Lake linked with the Yangtze River. *Environmental Chemistry*, 2017, 14 (1), 48-54. DOI:10.1071/EN16072

**(51)** **Lingqing Wang***, Buqing Zhong, Tao Liang, Baoshan Xing, Yifang Zhu*. Atmospheric thorium pollution and inhalation exposure in the largest rare earth mining and smelting area in China. *Science of the Total Environment*, 2016, 572, 1-8. DOI: 10.1016/j.scitotenv.2016.07.192

**(52)** Yulu Gao, Tao Liang*, Shuhan Tian, **Lingqing Wang**, Peter E. Holm, Hans Christian Bruun Hansen. High-resolution imaging of labile phosphorus and its relationship with iron redox state in lake sediments. *Environmental Pollution,* 2016, 219, 466–474. DOI:10.1016/j.envpol.2016.05.053

**(53)** Zhiping Yang, Tao Liang, Kexin Li, Qian Zhang, **Lingqing Wang***. The diffusion fluxes and sediment activity of phosphorus in the sediment-water interface of Poyang Lake. *Journal of Freshwater Ecology,* 2016, 31(4), 521-531. DOI: 10.1080/02705060.2016.1181113

**(54)** **Lingqing Wang***, Tao Liang. Distribution patterns and dynamics of phosphorus forms in the overlying water and sediment of Dongting Lake. *Journal of Great Lakes Research,* 2016, 42(3), 565-570. DOI: 10.1016/j.jglr.2016.03.013

**(55)** **Lingqing Wang***, Tao Liang*. Anomalous abundance and redistribution patterns of rare earth elements in soils of a mining area in Inner Mongolia, China. *Environmental Science and Pollution Research*, 2016, 23(11):11330–11338. DOI: 10.1007/s11356-016-6351-8

**(56)** Kexin Li, Tao Liang*, **Lingqing Wang***. Risk assessment of atmospheric heavy metals exposure in Baotou, a typical industrial city in northern China. *Environmental Geochemistry and Health*, 2016, 38:843-853. DOI: 10.1007/s10653-015-9765-1

**(57)** Kexin Li, Tao Liang*, **Lingqing Wang***, Zhiping Yang. Contamination and health risk assessment of heavy metals in road dust in Bayan Obo mining region in Inner Mongolia, North China. *Journal of Geographical Sciences*, 2015, 25(12): 1439-1451. DOI: 10.1007/s11442-015-1244-1

**(58)** **Lingqing Wang***, Tao Liang*. Distribution Characteristics of Phosphorus in the Sediments and Overlying Water of Poyang Lake. *PLOS ONE,* 2015, 10(5):e0125859, DOI:10.1371/journal.pone.0125859.

**(59)** **Lingqing Wang***, Tao Liang*. Geochemical fractions of rare earth elements in soil around a mine tailing in Baotou, China. *Scientific Report*, 2015, 5:12483. DOI: 10.1038/srep12483.

**(60)** Zhiping Yang, **Lingqing Wang***, Tao Liang*, Manxiang Huang. Nitrogen distribution and ammonia release from the overlying water and sediments of Poyang Lake, China. *Environmental Earth Science,* 2015, 74:771-778. DOI 10.1007/s12665-015-4081-8.

**(61)** Manxiang Huang, Tao Liang*, **Lingqing Wang***, Chenghu Zhou. Effects of no-tillage systems on soil physical properties and carbon sequestration under long-term wheat–maize double cropping system. *Catena*, 2015, 128: 195-202. DOI:10.1016/j.catena.2015.02.010

**(62)** Manxiang Huang, Tao Liang*, **Lingqing Wang***, Chenghu Zhou. No-tillage and fertilization management on crop yields and nitrate leaching in North China Plain. *Ecology and Evolution*, 2015, 5(6): 1143-1155. DOI: 10.1002/ece3.1420

**(63)** Manxiang Huang, Tao Liang*, **Lingqing Wang***. Nitrous oxide emissions in a winter wheat – summer maize

double cropping system under different tillage and fertilizer management. *Soil Use and Management*, 2015, 31:98-105. DOI: 10.1111/sum.12170

**(64)** **Lingqing Wang***, Tao Liang*, Kexin Li, Buqing Zhong, Qian Zhang, Chaosheng Zhang. Study on nitrogen distribution and ammonia release at the sediment-water interface of Dongting Lake. *Aquatic Geochemistry,* 2014, 20:501-517. DOI:10.1007/s10498-014-9232-0

**(65)** **Lingqing Wang***, Tao Liang*, Qian Zhang, Kexin Li. Rare earth element components in atmospheric particulates in the Bayan Obo mine region. ***Environmental Research***, 2014, 31: 64-70. DOI:10.1016/j.envres.2014.02.006

**(66)** **Lingqing Wang,** Tao Liang. Accumulation and fractionation of rare earth elements in atmospheric particulates around a mine tailing in Baotou, China. ***Atmospheric Environment***, 2014, 88: 23-29. DOI:10.1016/j.atmosenv.2014.01.068

**(67)** **Lingqing Wang,** Tao Liang. Effects of exogenous rare earth elements on phosphorus adsorption and desorption in different types of soils. *Chemosphere,* 2014, 103:148-155. DOI: 10.1016/j.chemosphere.2013.11.050

**(68)** **Lingqing Wang**, Tao Liang, Peter J.A. Kleinman, Hongying Cao. An experimental study on using rare earth elements to trace phosphorous losses from nonpoint sources. ***Chemosphere***, 2011, 85:1075-1079. DOI: 10.1016/j.chemosphere.2011.07.038

**(69)** **Lingqing Wang**, Tao Liang, Zhongyi Chong, Chaosheng Zhang. Effects of soil type on leaching and runoff transport of rare earth elements and phosphorous in laboratory experiments. ***Environmental Science and Pollution Research,*** 2011, 18:38-45. DOI 10.1007/s11356-010-0357-4

**(70)** **Lingqing Wang,** Tao Liang*, Qian Zhang. Laboratory experiments of phosphorus loss with surface runoff during simulated rainfall. *Environmental Earth Sciences,* 2013, 70:2839-2846. DOI 10.1007/s12665-013-2344-9

**(71)** **Lingqing Wang**, Tao Liang*, Weili Wang, Chaosheng Zhang. Effects of antecedent soil moisture on losses of rare earth elements and phosphorus in runoff. ***Environmental Earth Sciences***, 2012, 66:2379-2385. DOI 10.1007/s12665-011-1463-4

**(72)** Buqing Zhong, Tao Liang*, **Lingqing Wang**, Kexin Li. Applications of stochastic models and geostatistical analyses to study sources and spatial patterns of soil heavy metals in a metalliferous industrial district of China. *Science of the total Environment,* 2014, 490, 422-434. DOI: 10.1016/j.scitotenv.2014.04.127

**(73)** Qian Zhang, Chukwunonso Peter Okoli, **Lingqing Wang**, Tao Liang*. Adsorption of nitrophenol compounds from aqueous solution by cross-linked starch-based polymers. Desalination and Water Treatment, 2015, 55(6):1575-1585. DOI:10.1080/19443994.2014.928802

**(74)** Qian Zhang, Tao Liang*, **Lingqing Wang**, Yaqi Cai, Chukwunonso Peter Okoli. Cross-linked starch-based polymer as an SPE material for the determination of nitrophenols at trace levels in environmental water. ***Journal of Separation Science***, 2014, 37(3):257-264. DOI: 10.1002/jssc.201300934

**(75)** Tao Liang*, Kexin Li, **Lingqing Wang**. State of rare earth elements in different environmental components in mining areas of China. ***Environmental Monitoring and Assessment***, 2014, 186(3): 1499-1513. DOI: 10.1007/s10661-013-3469-8

**(76)** Weili Wang, Tao Liang*, **Lingqing Wang**, Yifan Liu, Yazhu Wang, Chaosheng Zhang. The effects of fertilizer applications on runoff loss of phosphorus. ***Environmental Earth Sciences***, 2013, 68:1313-1319. DOI10.1007/s12665-012-1829-2

**(77)** Qian Zhang, Tao Liang*, **Lingqing Wang**, Hongying Cao. Determination of polycyclic aromatic hydrocarbons from soil samples using selective pressurized liquid extraction ***Analytical Methods***, 2012, 4: 2441–2446

**(78)** Manxiang Huang, Tao Liang, Zhu Ou-Yang, **Lingqing Wang**, Chaosheng Zhang, Chenghu Zhou. Leaching losses of nitrate nitrogen and dissolved organic nitrogen from a yearly two crops system, wheat-maize, under monsoon situations. ***Nutrient Cycling in Agroecosystems,*** 2011, 91:77-89. (3☒1.722).1.2 DOI 10.1007/s10705-011-9447-z

**(79)** Tao Liang*, Wenchong Song, **Lingqing Wang**, P. J. A. Kleinman and Hongying Cao. Interactions between exogenous rare earth elements and phosphorus leaching in packed soil columns. Pedosphere, 2010, 20(5): 616-622. DOI:10.1016/S1002-0160(10)60051-3

**(80)** Lingqing Wang, Lu Xinwei. Natural radionuclide concentrations in soils around Baoji coal-fired power plant, China. Radiation Effects and Defects in Solids, 2007, 162(9):677-683.

**（81）** Xinwei Lu, **Lingqing Wang**, Xiaodan Jia. Radiometric analysis of Chinese commercial granites. ***Journal of Radioanalytical and Nuclear Chemistry,*** 2006, 267(3):669-673.

**(82)** Xinwei Lu, **Lingqing Wang**, Xiaodan Jia, Leipeng Yin, Gelian Deng. Special activity and hazards of Archeozoic-Cambrian rock samples collect from the Weibei area of Shaanxi, China. ***Radiation Protection Dosimetry***, 2006, 118(3):352-359.

**(83)** Xinwei Lu, Fengling Wang, Xiaodan Jia, **Lingqing Wang**. Radioactive analysis and radiological hazards of lime and cement fabricated in China. ***IEEE Transactions on Nuclear Science***, 2007, 54(2):327-332.

**（84）** Lijun Dai, Haiyan Wei, Lingqing Wang. Spatial distribution and risk assessment of radionuclides in soils around a coal-fired power plant: A case study from the city of Baoji, China. Environmental Research, 2007, 104(2) : 201-208