Professor Dr. Zhong Zhao



Personal information

Current position	University Professor	
University	Northwest A&F University	
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Educational background

From	То	University/Institution Degree and Majo	
Sept.	Dec.	Universitaet fuer Bodenkultur, Wien (Austria) / Doctor rerum naturalium	
1985	1988	Instituet fuer Forestoekologie technicarum (Forest Ecolog	
Mar.	Jan.	Northwestern University of Forestry (China) / B.S. in Agronomy	
1978	1982	College of Forestry	

Research projects

From	То	Title of Project	Position	Project Description
2012	2016	Researches and Demonstration of the Key	Headed	National Research
		Technology for Plantation Sustainable		Special Topic under the
		Management in the Loess Plateau		auspices of the Forestry
				Science and Technology
				Support Plan (China)
				(2012BAD22B03)
2014	2018	Researches of Key Technology for	Headed	National Forestry
		Protecting Against the Old Tree and		Industry Research
		Famous Wood Species at the Midstream		Special Funds for Public
		Area of the Yellow River		Welfare Projects
				(China) (201404302)

Selected Publications in Corresponding author

No.	Publication	
	Dang P et al. 2017. Effects of stand age and soil properties on soil bacterial and fungal	
1	community composition in Chinese pine plantations on the Loess Plateau. PLoS One,	
	12(10): e0186501.	
	Zhao J et al. 2017. Effects of ecological restoration projects on changes in land cover: A	
2	case study on the Loess Plateau in China. Scientific Reports, 7: 44496 DOI:	
	0.1038/srep44496	
3	Liu JL et al. 2017. Response of soil microbial community dynamics to Robinia pseudoacacia	
	L. afforestation in the loess plateau: a chronosequence approach. Plant and soil, 423 (1-2):	

	327-338.
	Dang P et al. 2018. Effects of thinning intensity on understory vegetation and soil microbial
4	communities of a mature Chinese pine plantation in the Loess Plateau. Science of the Total
	Environment. 630: 171-180.
	Liu JL et al. 2018. Effects of tree species and soil properties on the composition and
5	diversity of the soil bacterial community following afforestation. Forest ecology and
	management. 427 : 342-349
6	Liu JL. et al. 2018. Characteristics of bulk and rhizosphere soil microbial community in an
0	ancient Platycladus orientalis forest. Applied soil ecology, 132: 91-98.
7	Dang P et al. 2018. Changes in soil fungal communities and vegetation following
/	afforestation with Pinus tabulaeformis on the Loess Plateau. Ecosphere, 9 (8): e02401
0	Zhao QX et al. 2018. Estimating Forest Canopy Cover in Black Locust (Robinia pseudoacacia
8	L.) Plantations on the Loess Plateau Using Random Forest. Forest, 9 (10): 623.

Professor information for Kang Yongxiang



Personal information

Current position	Professor	
University	Northwest A & F University	
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Mobile	086 13572575302	

Educational background

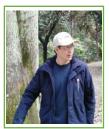
From	То	University/Institution	Degree and Major
2006	2012	Northwest A & F University	PH D for Forest Ecology
2001	2002	Central Queensland University	Visiting scholar for Restoration Ecology
		of Australia	
1987	1989	Northwest A & F University	Master for Forest Botany
1980	1984	Northwest A & F University	Bachelor for Forestry

From	To	Title of Project	Position	Project Description
2014	2018	Research on the protection keys technics of ancient trees in middle reach area of Yellow River	Main researcher	The growth restoration of ancient trees by means of improving the fertile ability of the soil.
2016	2018	Research on Endangered plants of Qinling Mts.	Preside	Work on the classification, distribution of endangered plants, and mechanism of endangered plant in Qinling Mts.
2018	2020	Research on cultural technics of <i>Ulmus</i> elongata	Preside	Research on the technics of propagation of <i>Ulmus elongata</i> , one of endangered plants in China.
2015	2022	Monitoring for carbon sink of energy forest of Shaaxi and Gansu,	Preside	Monitoring the plantation of <i>Xantoceras sorbifolia</i> for carbon sink in Shaanxi and Gansu province by means of the growth.
2010	2016	Diversity of Magnolia sprengeri on morphology and DNA in Qinling and Bashan	Preside	Research on diversity of Magnolia sprengeri on morphology and DNA in Qinling and Bashan Mts

Mts		
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Year	Publication			
2018	Responses of leaf morphological and anatomical structure to elevation in an			
	alpine plant <i>Meconopsis integrifolia</i> . Chinese Journal of Ecology 2018, 37(1):			
	35 - 42			
2017	Effect of wood vinegar on soil aggregates and growth of Platycladus orientalis.			
	Journal of Northwest A&F University(Nat.SCI.Ed) 2017,45(6):75-82			
2017	Plants as highly diverse sources of construction wood, handicrafts and fibre in			
	the Heihe valley (Qinling Mountains, Shaanxi, China): the importance of minor			
	forest products, Journal of Ethnobiology and Ethnomedicine, 2017, 13:38 SCI			
2017	A study on trunk decay of ancient platycladus orientalis in Tomb of Yellow			
	Emperor. Journal of Northwest Forestry University, 2017,32(2):180-187			
2016	Wild food plants and fungi used in themycophilous Tibetan community of			
	Zhagana (Tewo County, Gansu, China), Journal of Ethnobiology and			
	Ethnomedicine, 2016,12 (21): 1-13(SCI)			
2014	Soil respiration characteristics in the clear-cutting site of Quercus aliena var.			
	acuteserrata forest in Xiaolong Mountain in Qinling Mountains, Ch inese			
	Journa l of Applied E cology, 2014,25(2):342-350			
2013	Antifungal activities of Potentilla fruticosa on 12 fungi spp. Allelopathy			
	Journal, 2013,31 (2): 405-414 (SCI)			
2013	Chemical constituents of the leaves of Menispermum dauricum. Chemistry of			
	Natural Compounds, 2013, Vol. 49, No. 2:338-339 (SCI)			
2012	The highly toxic Aconitum as a root vegetable in the Qinling Mountains			
	(Shaanxi, China). Genetic Resources and Crop Evolution, 2012, 59: 1569~1575			
	(SCI)			
2012	Chemical constituents of the leaves from Xanthoceras sorbifolia, Chemistry of			
	Natural Compounds, 2012, Vol. 48, No. 5: 876-875 (SCI)			
2011	Magnolia sprengeri Pamp.: Morphological variation and geographical			
	distribution. Plant Biosystems, 2011, 145(4): 906~923 (SCI)			

Dr. Tianjian Cao



Personal Information

Current position	Professor of Forest Management	
University	Northwest A&F University	
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Education Background

From	То	University/Institution	Degree and Major
2003	2010	University of Helsinki	D.Sc. (Agri. & For.), Business Economics of
			Forestry
2001	2003	University of Helsinki	M.Sc. (Agri. & For.), Business Economics of
			Forestry
1987	1991	Fujian Forestry College	B.Sc. (Econ.), Forest Economics and
			Management

Selected Research Projects

From	То	Title of Project	Position	Project Description
		Modeling the		National Natural Science
		uncertainty of		Foundation of China (NSFC
2017	2020	regeneration and	Project	31670646)
2017	2020	mortality	leader	
		for mixed forests with		
		stochastic process		
	2018	Site evaluation of		National Forest Management
		natural oak forests in	Sub-	Programme (1692016-7)
2016		Loess Plateau:	project	
		methodology and	leader	
		applications		
		Adaptive management		National Natural Science
2012	2015	of Forest Ecosystem	Project	Foundation of China (NSFC
2012		under the	leader	31170586)
		Changing Climate		
2010	2013	Utilization of forest	Project	Northwest A&F University

		bioenergy and its	leader	(Z111021002)
		effects on carbon		
		sequestration		
		Eco-economic model		Finnish Ministry of Education
2007	2010	linkages toward timber	Project	
2007	2010	and	leader	
		non-timber production		

Selected Publications

Year	Publication
2019	Hailian Xue(#), Annikki Mäkelä, Lauri Valsta, Jerome K. Vanclay, Tianjian
	Cao(*). Comparison of population-based algorithms for optimizing thinnings
	and rotation using a process-based growth model. Scandinavian Journal of
	Forest Research, 2019 (accepted), DOI:10.1080/02827581.2019.1581252.
2018	Shuaichao Sun(#), Quang V. Cao, Tianjian Cao(*). Evaluation of
	distance-independent competition indices in predicting tree survival and
	diameter growth. Canadian Journal of Forest Research, 2018 (accepted),
	DOI:10.1139/cjfr-2018-0344.
2017	Henna Hurttala, Tianjian Cao, Lauri Valsta, 2017. Optimization of Scots pine
	(Pinus sylvestris) management with the total net return from the value chain.
	Journal of Forest Economics, 28: 1 - 11.
2015	Tianjian Cao (#)(*), Kari Hyytiänen, Henna Hurttala, Lauri Valsta, Jerome K.
	Vanclay, 2015. An integrated assessment approach to forest bioenergy
	production for young Scots pine stands, Forest Ecosystems, 2 (19) : 1-10.
2010	Tianjian Cao (#)(*), Lauri Valsta, Annikki Mäkelä, 2010. A comparison of
	carbon assessment methods for optimizing timber production and carbon
	sequestration in Scots pine stands. Forest Ecology and Management. 260,
	1726-1734.
2008	Tianjian Cao (#)(*), Lauri Valsta, Sanna Härkönen, Pekka Saranpää, Annikki
	Mäkelä, 2008. Effects of thinning and fertilization on wood properties and
	economic returns for Norway spruce. Forest Ecology and Management. 256:
	1280-1289.
2006	Tianjian Cao (#)(*), Kari Hyytiäinen, Olli Tahvonen, Lauri Valsta, 2006.
	Effects of initial stand states on optimal thinning and rotation of Picea abies
	stands. Scandinavian Journal of Forest Research 21: 388-398.

Guangzhe Liu's information



Personal information

Current position	Associate professor
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Educational background

From	То	University/Institution	Degree and Major
1984	1988	Northwest College of Forestry	Bachelor degree in Agriculture
2000	2001	University Queensland/ Australia	Master degree in Rural System
			Management
2008	2012	Northwest A&F University	Ph.D in Agricultural and Rural
			Social Development

From	То	Title of Project	Position	Project Description
2016	2019	Honeysuckle drying regulations by air-thermal technology	Chair	Objectives are to determine the parameters of air-thermal technology applied to the drying of honeysuckle flowers to produce quality raw materials.
2016	2018	Exploration and practice of integrated system configuration and management of agriculture-forest-animal Husbandry	Chair /GEF Project	Case study was applied to explore the local (native) experience and models for vegetation restoration and sand control
2016	2017	Comparative study on technical standards for fruit growing in Kyrghyzstan	Co-chair	With technical standard of apple growing as the comparison to find out the difference of growing models between Shaanxi and Kyrghyzstan
2014	2016	Technical regulations on agricultural socialized service extension	Chair Sub-project	Agricultural socialized service become popular. How to regulate the service from the

				key points of the process?
2011	2012	Development of a case	Cooperator	To investigate the conflict
		study on conflict	with	existed in nature reserve
		management in China	RECOFTC	management in Qinling
				Mountains

Year	Publication		
2018	Patterns of poverty reduction through forestry in the south of Shaanxi Province.		
	Journal of Temperate Forestry Research. 2018,9(3): 55-62		
	Forest-based choice for targeted poverty reduction and its effectiveness in		
	Nanzhen District . Shaanxi Forest Science and Technology. 2018, 4(2): 64-66		
2017	Experts' perceptions of the sloping land conversion program in the Loess Plateau,		
	China. Land Use Policy. 69: 204–210.		
	Influencing factors of farmers' willingness of using forest-based bio-energy		
	products in Shaanxi, China. Journal of Northwest Forestry University, 32: 306-312		
	(Correspondent author)		
2016	Forest-based bioenergy development in a supply chain model in Finland. Journal of		
	Development and Research, 2016, 05:143-147		
	Rethinking of the professional forestry master program. Chinese Forestry		
	Education,2016, 01:70-75		
2015	Analysis of the problems of walnut industry development in Shaanxi. Shaanxi		
	Forest Science and Technology. 2015, (6): 48-51.		
	Analysis of main elements of forest fire in Qinling forest area. Shaanxi Forest		
	Science and Technology. 2015, (6): 24-26.		
2013	Effects of organic nitrogen and inorganic nitrogen on quality of Honeysuckle.		
	Journal of Henan Agricultural Sciences. 2013, 42(4): 89-90, 98		
2012	Grafting study of Xanthoceras sorbifolia Bunge. 2012. Anhui Agricultural Science.		
	2012, 40(12):7202 -7203		

Professor Liu weiguo



Personal information

Current position	Assistant Professor
University	Northwest A&F University
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Mobile	18240897596

Educational background

From	То	University/Institution	Degree and Major
2010	2015	West Virginia University	Ph.D. of Forest Resource Science
2007	2010	Beijing Forestry University	Master of Biophysics
2003	2007	Sichuan University	Bachelor of Ecology

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From	То	Title of Project	Position	Project Description
2017	2019	Environment Impact	PI	This project proposes that
		Simulation and		planting energy crop (Caragana)
		Assessment of Biomass		in these lands and using the
		Utilization of Caragana		biomass to produce pellet fuel
		Plantation in Loess		could ensure sustainable
		Plateau		utilization of returning lands,
				relief government pressure and
				strengthen Grain for Green
				achievements. By field
				measurements and inventories
				of sample plots of caragana
				stands, energy and raw
				materials consumption in pellet
				fuel facility, capital and
				operational costs and cost of
				supply chain after optimization,
				we construct life cycle
				assessment and
				techno-economic models to
				evaluate the environmental and
				economic impact of pellet fuel
				production.

Year	Publication
2019	Liu, Weiguo, Qiuan Zhu, Xiaolu Zhou, and Changhui Peng. "Comparative
	analyses of different biogenic CO2 emission accounting systems in life cycle
	assessment." Science of The Total Environment 652 (2019): 1456-1462.
2018	Liu, Weiguo, Zhen Yu, Xinfeng Xie, Klaus Von Gadow, and Changhui Peng. "A
	critical analysis of the carbon neutrality assumption in life cycle assessment of
	forest bioenergy systems." Environmental Reviews 26, no. 1 (2017): 93-101.
2017	Liu, Weiguo, Jingxin Wang, Debangsu Bhattacharyya, Yuan Jiang, and David
	DeVallance. "Economic and environmental analyses of coal and biomass to
	liquid fuels." Energy 141 (2017): 76-86.
2017	Liu, Weiguo, Jingxin Wang, Tom L. Richard, Damon S. Hartley, Sabrina Spatari,
	and Timothy A. Volk. "Economic and life cycle assessments of biomass
	utilization for bioenergy products." Biofuels, Bioproducts and Biorefining 11,
	no. 4 (2017): 633-647.
2017	Liu, Weiguo, Zhonghui Zhang, Xinfeng Xie, Zhen Yu, Klaus Von Gadow, Junming
	Xu, Shanshan Zhao, and Yuchun Yang. "Analysis of the global warming
	potential of biogenic CO 2 emission in life cycle assessments." Scientific reports
	7 (2017): 39857.

Dr. Fenli ZHENG



Personal Information

Current position	Full Professor
University	Northwest A&F University
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Office Phone	+86 29 87013205

Educational background

From	То	University/Institution	Degree and Major	
1994	1997	Institute of Soil and Water Conservation,	PhD in Soil science	
		Chinese Academy of Sciences and Ministry of		
		Water Resources, China		
1990	1991	UNEP/UNESCO International Postgraduate	Diploma and	
		Course in Environment Management for	Certification in	
		Developing Countries, Dresden University of	Environmental	
		Technology, Germany	management	
1983	1986	Institute of Soil and Water Conservation,	M.S. in Soil science	
		Chinese Academy of Sciences and Ministry of		
		Water Resources		
1979	1983	Department of Geography, Northwest	B.S. in Geography	
		University		

Main Research Projects

From	То	Title of Project	Position	Project Description
2018	2020	Impacts of climate change on	PI	International
		agricultural soil and water		Cooperation Key
		environment in the midstream of the		Projects of Chinese
		Yellow River and the Sava River of		Academy of Science
		Serbia		
2018	2020	Sediment source tracing and	PI	National Natural
		regulation strategies in Chinese Loess		Science Foundation
		Plateau and typical watershed of		of China
		South Africa: Rill and ephemeral gully		
		development process		
2017	2020	Erosion control mechanisms and	PI	National Key R&D
		regulation techniques in the Chinese		Program of China
		Mollisol region		
2016	2019	Interaction effects of multi-external	PI	National Natural
		erosion agency on hillslope soil		Science Foundation

		erosion process and mechanisms in Chinese mollisol region		of China
2013	2016	Gully development process and its morphology simulation on the loessial hilly-gully region	PI	National Natural Science Foundation of China
2012	2014	A study on sediment delivery ratio on the hillslope-gully catchment	PI	Ministry of Water Resources of China (Non-profit Industry Financial Program)
2010	2012	Potential impact assessment of Climate change on the Loess Plateau	PI	Ministry of Agriculture Foundation of China (948 Program)
2009	2011	Active gully erosion study on the Loess Plateau of China	PI	National Natural Science Foundation of China
2009	2010	Assessment of Soil Erodibility	PI	China-France international cooperation project
2008	2011	Erosion environment evolution in recent ten thousand years	PI	State Key Laboratory Foundation of China
2007	2012	Hillslope soil erosion processes and their mechanisms in the main water erosion regions of China (subproject)	PI	National Basis Research Program (973 project)
2006	2009	Erosion process, control and assessment at steep loess hillslopes	PI	China-US international cooperation project
2006	2006	Interactions among vegetation, soil erosion and soil quality and their mechanisms	PI	National Natural Science Foundation of China (Major research plan)
2004	2006	Research of rill/interrill erosion on slope cropland	PI	China-Austria international cooperation project
2004	2006	Soil N dynamics as affected by different land use in Western and Southern China	PI	China-Germany international cooperation project
2003	2007	Water erosion prediction model at watershed scale on the Loess Plateau	PI	National Natural Science Foundation of China (key program)
2003	2006	Water erosion prediction model	PI	Chinese Academy of Sciences (Innovation

				Project)
2003	2005	Soil erosion and its impacts	PI	Ministry of
		assessment		Agriculture
				Foundation of China
				(948 Program)
2001	2003	Detachment and transport on the	PI	National Natural
		lossial hillslope		Science Foundation
				of China
1999	2001	Soil nutrient loss response to soil	PI	National Natural
		erosion on hillslope after deforestation		Science Foundation
				of China
1997	1999	Water erosion dynamitic processes	PI	National Natural
		and prediction model		Science Foundation
				of China

Selected Publications

Year	Selected books	
2015	Mathias J. M. Römkens, Wells R R, Wang B, Zheng Fenli, Hickey C J. Chapter 8. Soil	
	Erosion on Upland Areas by Rainfall and Overland Flow. Springer, 2015.	
2014	Zheng Fenli, Wang Bin. Chapter 6. Restoration and development of degraded Loess	
	Plateau. Springer, 2014.	
2012	Zheng Fenli. Chaper 5. Hillslope runoff and soil erosion process in T. S. W. Wong (Ed).	
	Overland flow and surface runoff. Nova Science Publishers, Inc. 2012.	
2009	Zheng Fenli, Zhang X.C. and Wang J.X. WEPP Model and Its Application in the Loess	
	Plateau. Beijing: Science Press, 2009. (Chinse)	
	Zheng Fenli, et al. Gully Erosion and Sediment Yield in the Loess Plateau.	
	Beijing: Science Press, 2009. (Chinse)	
2008	Zheng Fenli, Jiang Z.S. and Gao X.T. Water Erosion Process and Prediction Model.	
	Beijing: Science Press, 2008. (Chinse)	
2005	Jing Ke, Wang Wan-zhong, Zheng Fenli. Soil Erosion and Environment in China. Beijing:	
	Science Press, 2005. (Chinse)	
2001	Zheng Fenli, Gao X.T. Soil erosion process and its simulation on loeessial hillslope. Xian:	
	Shaanxi Renmin Press, 2001. (Chinse)	
Year	SCI academic papers (*corresponding author)	
2018	Feng Z, Zheng Fenli*, Hu W, Li G, Xu X. Impacts of mollic epipedon thickness and	
	overloaded sediment deposition on corn yield in the Chinese Mollisol region. Agriculture,	
	Ecosystems & Environment. 2018, 257:175-182.	
	Jiang Y, Zheng Fenli*, Wen L, Shen H. Effects of sheet and rill erosion on soil aggregates	
	and organic carbon losses for a Mollisol hillslope under rainfall simulation. Journal of Soils	
	and Sediments. 2018, DOI: 10.1007/s11368-018-2043-y.	
	Qin C, Zheng Fenli*, Wells R R, Xu X, Wang B, Zhong K. A laboratory study of channel	
	sidewall expansion in upland concentrated flows. Soil & Tillage Research. 2018,	
	178:22-31.	
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	Qin C, Zheng Fenli*, Zhang J X, Xu X, Liu G. A simulation of rill bed incision processes
	in upland concentrated flows. <i>Catena</i> . 2018, 165:310-319.
	Wu H, Xu X, Zheng Fenli*, Qin C, He X. Gully morphological characteristics in the loess
	hilly-gully region based on 3D laser scanning technique. Earth Surface Processes and
	Landforms. 2018, 43(8):1701-1710.
	Xu X, Zheng Fenli*, Wilson G V, He C, Lu J, Bian F. Comparison of runoff and soil loss
	in different tillage systems in the Mollisol region of Northeast China. Soil & Tillage
	Research. 2018, 177:1-11.
	Zhong K, Zheng Fenli*, Xu X, Qin C. Discriminating the precipitation phase based on
	different temperature thresholds in the Songhua River Basin, China. Atmospheric Research.
	2018, 205:48-59.
	P.I.A. Kinnella, Wang Jianxun, Zheng Fenli. Comparison of the abilities of WEPP and the
	USLE-M to predict event soil loss on steep loessal slopes in China. Catena. 2018,
	171:99-106.
	Zhang Xunchang, Liu Gang, 'Fenli. Understanding erosion processes using rare earth
	element tracers in a preformed interrill-rill system. Science of the Total Environment. 2018,
	625: 920-927.
	Xiao Hai, Liu Gang, Zhang Qiong, Zheng Fenli, Zhang Xunchang, Liu Puling, Zhang
	Jiaqiong, Hu Feinan, Mohamed A. M. Abd-Elbasit. Quantifying contributions of slaking
	and mechanical breakdown of soil aggregates to splash erosion for different soils from the
	Loess plateau of China. Soil & Tillage Research. 2018, 178: 150-158
	Liu Gang, Hu Feinan, Mohamed A. M. Abd-Elbasit, Zheng Fenli, Liu Puling, Xiao Hai,
	Zhang Qiong, Zhang Jiaqiong. Holocene erosion triggered by climate change in the central
	Loess Plateau of China. Catena. 2018, 160: 103-111.
	Qin Wei, Guo Qiankun, Cao Wenhong, Yin Zhe, Yan Qinghong, Shan Zhijie, Zheng Fenli.
	A new RUSLE slope length factor and its application to soil erosion assessment in a Loess
	Plateau watershed. Soil & Tillage Research. 2018, 182: 10-24.
2017	Xu X, Zheng Fenli*, Wilson G V, Wu M. Upslope inflow, hillslope gradient, and rainfall
	intensity impacts on ephemeral gully erosion. Land Degradation & Development. 2017.
	Qin C, Zheng Fenli*, Xu X, Wu H, Shen H. A laboratory study on rill network
	development and morphological characteristics on loessial hillslope. Journal of Soils and
	Sediments. 2017, 18(7):1-12.
	Zhong Keyuan, Zheng Fenli*, Wu Hongyan, Qin Chao, Xu Ximeng. Dynamic changes in
	temperature extremes and their association with atmospheric circulation patterns in the
	Songhua River Basin, China. Atmospheric Research. 2017, 77-88.
	Xu Ximeng, Zheng Fenli*, Qin Chao, Wu Hongyan, Glenn V. Wilson. Impact of cornstalk
	buffer strip on hillslope erosion and its hydrodynamic understanding. Catena. 2017, 149,
	417-425.
	Han Yong, Zheng Fenli*, Xu Ximeng. Effects of rainfall regime and its character indices
	on soil loss at loessial hillslope with ephemeral gully. Journal of Mountain Science. 2017,
	14 (3): 527-538.
	Wang Bin, Steiner J, Zheng Fenli, Gowda P. Impact of rainfall pattern on interrill erosion

	process. Earth Surface Processes and Landforms. 2017, 42(12): 1833-1846.		
	Zhang Xunchang, Liu Gang, Zheng Fenli. A simple enrichment correction factor for		
	improving erosion estimation using rare earth oxide tracers. Vadose Zone Journal. 2017,		
	16(12).		
	Xiao Hai, Liu Gang, Liu Puling, Zheng Fenli, Zhang Jiaqiong, Hu Feinan. Developing		
	equations to explore relationships between aggregate stability and erodibility in Ultisols of		
	subtropical China. Catena. 2017, 157: 279-285.		
	Xiao Hai, Liu Gang, Liu Puling, Zheng Fenli, Zhang Jiaqiong, Hu Feinan. Response of		
	soil detachment rate to the hydraulic parameters of concentrated flow on steep loessial		
	slopes on the Loess Plateau of China. Hydrological Processes. 2017, 31: 2613-2621.		
	Xiao Hai, Liu Gang, Mohamed A. M. Abd-Elbasit, Zhang Xunchang, Liu Puling, Zheng		
	Fenli, Zhang Jiaqiong, Hu Feinan. Effects of slaking and mechanical breakdown on		
	disaggregation and splash erosion. European Journal of Soil Science. 2017, DOI:		
	10.1111/ejss.12482.		
2016	Hu W, Zheng Fenli*, Bian F. The Directional Components of Splash Erosion at Different		
	Raindrop Kinetic Energy in the Chinese Mollisol Region. Soil Science Society of America		
	Journal. 2016, 80(5):1329.		
	Li G, Zheng Fenli*, Lu J, Xu X, Hu W, Han Y. Inflow Rate Impact on Hillslope Erosion		
	Processes and Flow Hydrodynamics. Soil Science Society of America Journal. 2016,		
	80(3):711-719.		
	Lu J, Zheng Fenli*, Li G, Bian F, An J. The effects of raindrop impact and runoff		
	detachment on hillslope soil erosion and soil aggregate loss in the Mollisol region of		
	Northeast China. Soil & Tillage Research. 2016, 161:79-85.		
	Shen H, Zheng Fenli*, Wen L, Han Y, Hu W. Impacts of rainfall intensity and slope		
	gradient on rill erosion processes at loessial hillslope. Soil & Tillage Research. 2016,		
	155:429-436.		
2015	Guan Yinghui, Zhang Xunchang, Zheng Fenli*, Wang Bin. Trends and variability of daily		
	temperature extremes during 1960-2012 in the Yangtze River Basin, China. International		
	Journal of Climatology. 2015, 124(3): 79-94.		
	Guan Yinghui, Zheng Fenli*, Zhang Peng, Qin Chao. Spatial and temporal changes of		
	meteorological disasters in China during 1950-2013. Natural Hazards. 2015, 75:		
	2607-2623.		
	Wen Leilei, Zheng Fenli*, Shen Haiou, Bian Feng, Jiang Yiliang. Rainfall intensity and		
	inflow rate effects on hillslope soil erosion in the mollisol region of northeast china.		
	Natural Hazards. 2015, 79(1):381-395.		
	Shen Haiou, Zheng Fenli*, Wen Leilei, Lu Jia, Jiang Yiliang. An experimental study of rill		
	erosion and morphology. <i>Geomorphology</i> . 2015, 231:193-201.		
2014	An Juan, Zheng Fenli*, Wang Bin. Using 137Cs technique to investigate the spatial		
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	Wang Bin, Zheng Fenli*, Frederic Darboux, M.J.M. Romkens. Soil Erodibility in Erosion
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2012	Qiu Lin-jing, Zheng Fenli*, Yin Run-sheng. SWAT-based runoff and sediment simulation
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	during 1961-2009 and its projected changes during 2011-2099 on the Loess Plateau of
	China. Agricultural and Forest Meteorology. 2012, 154-155: 147-155
2010	Li Zhi, Liu Wenzhao, Zhang Xunchang, Zheng Fenli . Assessing and regulating the impacts
2010	of climate change on water resources in the Heihe watershed on the Loess Plateau of China.
2000	<i>Science China (Earth Sciences)</i> . 2010,(05):710-720. Hamer, U, Makeschin F, An S, Zheng Fenli . Microbial activity and community structure in
2009	
	degraded soils on the Loess Plateau of China. <i>Journal of Plant nutrition and soil science</i> .
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	hydrology in an agricultural catchment on the Loess Plateau of China. Journal of
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2008	An Shaoshan, Zheng Fenli*, Zhang Zhang Feng, Van Pelt S, Hamer U, Makeschin F. Soil
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	patterns on nutrient loss following deforestation on the Loess Plateau of China. Agriculture,
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	the Loess Plateau. Peodephere. 2005, 15(6):707-715.		
2004	Zheng Fenli*, Xiao P, Gao X. Rill erosion process and rill flow hydraulic parameters.		
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	and phosphorus losses in surface runoff. Journal of Environment Quality. 2004, 33(6):		
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	Runoff, Soil Erosion, and Erodibility of Conservation Reserve Program Land under Crop		
	and Hay Production. Soil Science Society of America Journal, 2004, 68(4):1332-1341.		
2000	Zheng Fenli*, Chi-hua Huang, L.D. Norton. Vertical hydraulic gradient and run-on water		
	and sediment effects on erosion processes and sediment regimes. Soil Science Society of		
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1997	Zheng Fenli*, Tang Keli. Rill erosion process on steep slope land of the Loess Plateau.		
	International Journal of Sediment Research. 1997, 12(1): 52-59.		



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Educational background

From	То	University/Institution	Degree and Major
2004.04	2005.3	Imperial College London/ Department of	Scholarship in
		Agricultural Sciences	Landscape Ecology
			and Restoration.
1996	2000	Northwest A&F University/ College of Water	Ph.D. in Agricultural
		Resources and Architectural Engineering	water and soil
			engineering
1984	1988	Northwest Agricultural University/Department of	B.S. in Soil
		Soil Agrochemistry	Agrochemistry

From	То	Title of Project	Position	Project Description
2018	2021	Characteristics and driving mechanism of	PI	Special project of the
		soil erosion of typical regions in the		strategic leading
		extensive third pole		science and technology
				Program of CAS
				(XDA20040202-1)
2018	2021	The response mechanism of sediment	PI	National Natural
		connectivity to rainfall and human activities		Science Foundation of
		in the hilly and gully Loess Plateau		China (41771319)
2016	2020	Soil erosion effectiveness and control	PI	Special project of the
		mechanism of ecological restoration in the		National Key R&D
		Loess Plateau		Program of China

			(2016YFC0501604)					
Sele	cted P	ublications						
Year	Year Publication							
	Hu Shu, Jiao Juying*, García-Fayos P, et al. Telling a different story: plant recolonization							
ä	after lar	er landslides under a semi-arid climate [J]. Plant & Soil, 2018:1-16						
2.	Wei Yanhong, He Zhong, Jiao Juying*, et al. Variation in the sediment deposition behind							
(check-dams under different soil erosion conditions on the Loess Plateau, China [J]. Earth							
	Surface Processes & Landforms, 2018, 43: 1899-1912							
3.	3. Yu Weijie, Jiao Juying* . Sustainability of Abandoned Slopes in the Hill and Gully Loess							
]	Plateau	Region Considering Deep Soil Water [J]. Sustained	ability, 2018, 10(7):2287					
	-	ingzhe, Jiao Juying* , Yan Fangcheng, Li Hang. V						
		getation restoration in the hilly and gully regions o						
		and Sediments, https://doi.org/10.1007/s11368-0	018-2121-1					
2018	5.	. Hu Shu, Jiao Juying *, García-Fayos P, et al. T	Celling a different story: plant recolonization					
		after landslides under a semi-arid climate [J]. P	Plant & Soil, 2018:1-16					
	6.	. Wei Yanhong, He Zhong, Jiao Juying *, et al.	Variation in the sediment deposition behind					
		check-dams under different soil erosion condit	ions on the Loess Plateau, China [J]. Earth					
		Surface Processes & Landforms, 2018, 43: 18	99-1912					
	7.	. Yu Weijie, Jiao Juying* . Sustainability of Aba	andoned Slopes in the Hill and Gully Loess					
		Plateau Region Considering Deep Soil Water [.	J]. Sustainability, 2018, 10(7):2287					
	8.	. Tang Bingzhe, Jiao Juying *, Yan Fangcheng,	Li Hang. Variations in soil infiltration capaci					
		after vegetation restoration in the hilly and gull						
		of Soils and Sediments, https://doi.org/10.100	07/s11368-018-2121-1					
2017	1.	Yu Weijie, Jiao Juying*, Chen Yu, Wang D	ongli, Wang Ning, Zhao Hengkang. Seed					
		removal due to overland flow on abandoned	slopes in the Chinese hilly gullied Loess					
		Plateau region. Land Degradation & Developm	ent, 2017, 28: 274–282					
	2.	Wei Yanhong, He Zhong, Li Yujin, Jiao Juyin						
		yield deduction from check-dams deposition in						
		north Loess Plateau, China. Land Degradation of	· · · ·					
	3.	Shu Hu, Yujin Li, Wanzhong Wang, Juying Ji						
		Antioxidation-related functional structure of						
		antioxidation at the plant community level, <i>Ecol</i>	0					
	4.	Ning Wang, Juying Jiao *, Yanfeng Jia, Dong	0					
		Species Diversity of the Soil Seed Bank and						
		Loess Plateau, China. International journal of	environmental research and public health,					
		2017,14:1285						
	5.	Du Huadong, Jiao Juying*, Zhao Xiaoguang.						
		phytogenic mounds on the Loess Plateau of Ch	ina. Journal of Arid Environments, 2017,					
0016		146 : 53-63						
2016	1.	Kou Meng, Jiao Juying*, Yin Qiulong, Wang						
		Wei Yanhong, Yan Fangchen, Cao Bingting.						
		vegetation restoration of abandoned slope crop						
	2.	Plateau. <i>Land Degradation & Development</i> , 20 Kou Meng, Garcia-Fayos Patricio, Hu Shu,						
	∠.	pseudoacacia afforestation on soil and vegetatio						
		chronosequence approach. <i>Forest Ecology and</i>						
	3.	Yu Weijie, Jiao Juying *, Wang Dongli, Wang	-					
		population dynamics on abandoned slopes in t						
		China. <i>Ecological Engineering</i> , 2016, 94, 427-4	U					
	4.	Yanhong Wei, Juying Jiao*, Guangju Zhao, I						

	Spatial - temporal variation and periodic change in stream flow and suspended sediment
	discharge along the mainstream of the Yellow River during 1950-2013. Catena, 2016, 140:
	105-115
5.	Wang Zhijie, Jiao Juying*, Rayburg Scott, Wang Qiaoli, Su Yuan. Soil erosion resistance
	of "Grain for Green" vegetation types under extreme rainfall conditions on the Loess
	Plateau, China. <i>Catena</i> , 2016, 141,109-116.
6.	Li Yujin, Jiao Juying*, Wang Zhijie, Cao Binting, Wei Yanhong, Hu Shu. Effects of
	Revegetation on Soil Organic Carbon Storage and Erosion-Induced Carbon Loss under
	Extreme Rainstorms in the Hill and Gully Region of the Loess Plateau. International
	journal of environmental research and public health, 2016, 13(5):456

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Educational background

		_	
From	То	University/Institution	Degree and Major
1995	1998	Northwest Agricultural University	Ph. D, Plant Nutrition
1989	1992	Northwest Agricultural University	Master Degree, Plant Nutrition
1985	1989	Northwest Agricultural University	Bachelor Degree, Plant Nutrition

From	То	Title of Project	Position	Project Description
2019	2021	Development and	Responsible	The purpose of this project is to
		demonstration of		clarify the mechanism of
		comprehensive		increasing carbon sequestration
		utilization technology		proportion of straw resources in
		of straw resources in		the farmland soil, form the
		cropland soil		technology system to use straw
				in cereal crop fields and
				protected vegetable field by
				machinery.
2016	2020	Mechanism and	Participate	Taking the farmland in the Loess
		regulation of cultivated		Plateau as the research object,
		land fertility affecting		the field experiment method was
		nutrient utilization of		adopted to study the effect of
		chemical fertilizer		green manure on the fertility of
				the winter wheat field.
2016	2020	Influencing	Responsible	Low Zn concentration of wheat
		mechanisms of zinc		grain results in health problem of

foliar application	human beings especially in arid
combining with	areas. This project aims to
commonly-used	develop the feasible technology
organic pesticides as	of zinc fertilizers application. This
well as inorganic	project adopted the technology
phosphorus on zinc	of stable isotope tracer 68Zn and
biofortification of	LA-ICP-MS. The study aims to
wheat grain	reveal the mechanism of Zn
	biofitification of wheat grain by
	researching grain Zn absorption
	and distribution with spraying Zn
	and pesticides, or use Zn and P
	fertilizers and pesticides together.

Year		Publications		
2019	1.	Chen Yanlong, Jianglan Shi, Xiaohong Tian*, Zhou Jia, Shaoxia Wang, Juan Chen,		
		Wenling Zhu. Impact of dissolved organic matter on Zn extractability and transfer in		
		calcareous soil with maize straw amendment. Journal of Soils and Sediments,		
		2019,19(2): 774-784		
2018	2.	Zhao H L, Shar A G, Li S, Chen Y L, Shi J L, Zhang X Y, Tian X H [*] . Effect of straw		
		return mode on soil aggregation and aggregate carbon content in an annual		
		maize-wheat double cropping system. Soil & Tillage Research, 2018, 175: 178-186		
	3.	Li Meng, Shaoxia Wang, Xiaohong Tian*, Yingping Huang*. Improving nutritional		
		quality of wheat grain through foliar zinc combined with macronutrients. Agronomy		
		Journal, 2018, 110: 38-46		
	4.	Zhao Aiqing, Shu Yang, Bini Wang, Xiaohong Tian*, Youlin Zhang**. Effects of		
		ZnSO4 and Zn-EDTA broadcast or banded to soil on Zn bioavilability in wheat		
		(Triticum aestivum L.) and Zn frations in soil. Chemosphere, 2018, 205: 350-360		
	5.	Huili Zhao, Huijie Zhang, Abdul Ghaffar Shar, Jifei Liu, Yanlong Chen, Songjie Chu,		
		Xiaohong Tian [*] . Enhancing organic and inorganic carbon sequestration in calcareous		
		soil by the combination of wheat straw and wood ash and/or lime. PLoS ONE,		
		13(10): e0205361		
2017	6.	Shuo Li, Juan Chen, Jianglan Shi, Xiaohong Tian*, Xiushuang Li, Youbing Li, Huili		
		Zhao. Impact of straw return on soil carbon indices, enzyme activity, and grain		
		production. Soil Science Society of America Journal, 2017, 81: 1475-1485		
	7.	Zhao H L, Tian X H*, Chen Y L, Dong J J, Shi J L. Effect of exogenous substances		
		on soil organic and inorganic carbon sequestration under maize stover addition. Soil		
		Science and Plant Nutrition, 2017, 63: 591-598.		
	8.	Zhou Yangxue, Franco Berruti, Charles Greenhalf, Xiaohong Tian*, Hugh A. L.		
		Henry. Increased retention of soil nitrogen over winter by biochar application:		
		implications of biochar pyrolysis temperature for plant nitrogen availability.		
		Agriculture, Ecosystems and Environment, 2017, 236: 61-68		
	9.	Chen Yanlong, Juan Cui, Xiaohong Tian*, Aiqing Zhao, Meng Li, Shaoxia Wang,		

		Xiushaung Li, Zhou Jia, Ke Liu. Effect of straw amendment on soil Zn availability and ageing of exogenous water-soluble Zn applied to calcareous soil. <i>Plos One</i> , 2017, 12(1): e0169776
	10.	Chen Yanlong, Zhou Jia, Ke Liu, Xiaohong Tian *, Song Wang, Shaoxia Wang, Xiushuang Li, Huili Zhao, Abdul Ghaffar Shar. Response of exogenous zinc
		availability and transformation to maize straw as affected by soil organic matter. <i>Soil Science Society of America Journal</i> , 2017, 81: 814–827
	11.	Li Meng, Tian Xiao-hong*, Li Xiu-li, Wang Shao-xia. Effect of Zn application
		methods on Zn distribution and bioavailability in wheat pearling fractions of two
		wheat genotypes. Journal of Integrative Agriculture, 2017, 16(7): 1617-1623
	12.	Wang Shaoxia, Meng Li, Ke Liu, Xiaohong Tian*, Shuo Li, Yanlong Chen, Zhou
		Jia. Effects of Zn, macronutrients, and their interactions through foliar applications on
		winter wheat grain nutritional quality. <i>Plos One</i> , 2017, 12(7): e0181276
2016	13.	Meng Li, Shaoxia Wang, Xiaohong Tian *, Shuo Li, Yanlong Chen, Zhou Jia, Ke
		Liu, Aiqing Zhao. Zinc and iron concentrations in grain milling fractions through
		combined foliar aplications of Zn and macronutrients. <i>Field Crops Research</i> , 2016, 186, 125, 141
	11	186: 135-141 Shuo Li, Youbing Li, Xiushuang Li, Xiaohong Tian *, Aiqing Zhao, Shujuan Wang,
	14.	Shaoxia Wang, Jianglan Shi. Effect of straw management on carbon sequestration and
		grain production in a maize–wheat cropping system in Anthrosol of the Guanzhong
		Plain. Soil & Tillage Research, 2016, 157: 43-51
2015	15.	Meng Li, Shaoxia Wang, Xiaohong Tian*, Jihong Zhao, Hongyun Li, Chunhui Guo,
		Yanlong Chen, Aiqing Zhao. Zn distribution and bioavailability in whole grain and
		grain fractions of winter wheat as affected by applications of soil N and foliar Zn
		combined with N or P. Journal of Cereal Science, 2015, 61: 26-32
	10	-
	16.	Shaoxia Wang, Meng Li, Xiaohong Tian*, Jin Li, Hongyun Li, Yijun Ni, Jihong Zhao,
	16.	Shaoxia Wang, Meng Li, Xiaohong Tian *, Jin Li, Hongyun Li, Yijun Ni, Jihong Zhao, Yanlong Chen, Chunhui Guo, Aiqing Zhao. Foliar zinc, nitrogen, and phosphorus
	16.	Shaoxia Wang, Meng Li, Xiaohong Tian *, Jin Li, Hongyun Li, Yijun Ni, Jihong Zhao, Yanlong Chen, Chunhui Guo, Aiqing Zhao. Foliar zinc, nitrogen, and phosphorus application effects on micronutrient concentrations in winter wheat. <i>Agronomy</i>
		Shaoxia Wang, Meng Li, Xiaohong Tian *, Jin Li, Hongyun Li, Yijun Ni, Jihong Zhao, Yanlong Chen, Chunhui Guo, Aiqing Zhao. Foliar zinc, nitrogen, and phosphorus application effects on micronutrient concentrations in winter wheat. <i>Agronomy</i> <i>Journal</i> , 2015, 107: 61-70
		Shaoxia Wang, Meng Li, Xiaohong Tian *, Jin Li, Hongyun Li, Yijun Ni, Jihong Zhao, Yanlong Chen, Chunhui Guo, Aiqing Zhao. Foliar zinc, nitrogen, and phosphorus application effects on micronutrient concentrations in winter wheat. <i>Agronomy</i> <i>Journal</i> , 2015, 107: 61-70 Yanlong Chen, Ting Liu, Xiaohong Tian *, Xiaofeng Wang, Meng Li, Shaoxia Wang,
		Shaoxia Wang, Meng Li, Xiaohong Tian *, Jin Li, Hongyun Li, Yijun Ni, Jihong Zhao, Yanlong Chen, Chunhui Guo, Aiqing Zhao. Foliar zinc, nitrogen, and phosphorus application effects on micronutrient concentrations in winter wheat. <i>Agronomy</i> <i>Journal</i> , 2015, 107: 61-70 Yanlong Chen, Ting Liu, Xiaohong Tian *, Xiaofeng Wang, Meng Li, Shaoxia Wang, Zhaohui Wang. Effects of plastic film combined with straw mulch on grain yield and
		Shaoxia Wang, Meng Li, Xiaohong Tian *, Jin Li, Hongyun Li, Yijun Ni, Jihong Zhao, Yanlong Chen, Chunhui Guo, Aiqing Zhao. Foliar zinc, nitrogen, and phosphorus application effects on micronutrient concentrations in winter wheat. <i>Agronomy</i> <i>Journal</i> , 2015, 107: 61-70 Yanlong Chen, Ting Liu, Xiaohong Tian *, Xiaofeng Wang, Meng Li, Shaoxia Wang,
		Shaoxia Wang, Meng Li, Xiaohong Tian *, Jin Li, Hongyun Li, Yijun Ni, Jihong Zhao, Yanlong Chen, Chunhui Guo, Aiqing Zhao. Foliar zinc, nitrogen, and phosphorus application effects on micronutrient concentrations in winter wheat. <i>Agronomy</i> <i>Journal</i> , 2015, 107: 61-70 Yanlong Chen, Ting Liu, Xiaohong Tian *, Xiaofeng Wang, Meng Li, Shaoxia Wang, Zhaohui Wang. Effects of plastic film combined with straw mulch on grain yield and water use efficiency of winter wheat in Loess Plateau. <i>Field Crops Research</i> , 2015, 172: 53-58
	17.	Shaoxia Wang, Meng Li, Xiaohong Tian *, Jin Li, Hongyun Li, Yijun Ni, Jihong Zhao, Yanlong Chen, Chunhui Guo, Aiqing Zhao. Foliar zinc, nitrogen, and phosphorus application effects on micronutrient concentrations in winter wheat. <i>Agronomy</i> <i>Journal</i> , 2015, 107: 61-70 Yanlong Chen, Ting Liu, Xiaohong Tian *, Xiaofeng Wang, Meng Li, Shaoxia Wang, Zhaohui Wang. Effects of plastic film combined with straw mulch on grain yield and water use efficiency of winter wheat in Loess Plateau. <i>Field Crops Research</i> , 2015, 172: 53-58
	17.	 Shaoxia Wang, Meng Li, Xiaohong Tian*, Jin Li, Hongyun Li, Yijun Ni, Jihong Zhao, Yanlong Chen, Chunhui Guo, Aiqing Zhao. Foliar zinc, nitrogen, and phosphorus application effects on micronutrient concentrations in winter wheat. <i>Agronomy Journal</i>, 2015, 107: 61-70 Yanlong Chen, Ting Liu, Xiaohong Tian*, Xiaofeng Wang, Meng Li, Shaoxia Wang, Zhaohui Wang. Effects of plastic film combined with straw mulch on grain yield and water use efficiency of winter wheat in Loess Plateau. <i>Field Crops Research</i>, 2015, 172: 53-58 Yanlong Chen, Ting Liu, Xiaohong Tian*, Xiaofeng Wang, Huilin Chen, Meng Li,
	17.	 Shaoxia Wang, Meng Li, Xiaohong Tian*, Jin Li, Hongyun Li, Yijun Ni, Jihong Zhao, Yanlong Chen, Chunhui Guo, Aiqing Zhao. Foliar zinc, nitrogen, and phosphorus application effects on micronutrient concentrations in winter wheat. <i>Agronomy Journal</i>, 2015, 107: 61-70 Yanlong Chen, Ting Liu, Xiaohong Tian*, Xiaofeng Wang, Meng Li, Shaoxia Wang, Zhaohui Wang. Effects of plastic film combined with straw mulch on grain yield and water use efficiency of winter wheat in Loess Plateau. <i>Field Crops Research</i>, 2015, 172: 53-58 Yanlong Chen, Ting Liu, Xiaohong Tian*, Xiaofeng Wang, Huilin Chen, Meng Li, Shaoxia Wang, Zhaohui Wang, Zhaohui Wang. Improving winter wheat grain yield and water use
	17. 18.	 Shaoxia Wang, Meng Li, Xiaohong Tian*, Jin Li, Hongyun Li, Yijun Ni, Jihong Zhao, Yanlong Chen, Chunhui Guo, Aiqing Zhao. Foliar zinc, nitrogen, and phosphorus application effects on micronutrient concentrations in winter wheat. <i>Agronomy Journal</i>, 2015, 107: 61-70 Yanlong Chen, Ting Liu, Xiaohong Tian*, Xiaofeng Wang, Meng Li, Shaoxia Wang, Zhaohui Wang. Effects of plastic film combined with straw mulch on grain yield and water use efficiency of winter wheat in Loess Plateau. <i>Field Crops Research</i>, 2015, 172: 53-58 Yanlong Chen, Ting Liu, Xiaohong Tian*, Xiaofeng Wang, Huilin Chen, Meng Li, Shaoxia Wang, Zhaohui Wang. Improving winter wheat grain yield and water use efficiency through fertilization and mulch in the Loess Plateau. <i>Agronomy Journal</i>, 2015, 107: 2059-2068 Aiqing Zhao, Xiaohong Tian*, Yanlong Chen, Shuo Li. Application of ZnSO4 or
	17. 18.	 Shaoxia Wang, Meng Li, Xiaohong Tian*, Jin Li, Hongyun Li, Yijun Ni, Jihong Zhao, Yanlong Chen, Chunhui Guo, Aiqing Zhao. Foliar zinc, nitrogen, and phosphorus application effects on micronutrient concentrations in winter wheat. <i>Agronomy Journal</i>, 2015, 107: 61-70 Yanlong Chen, Ting Liu, Xiaohong Tian*, Xiaofeng Wang, Meng Li, Shaoxia Wang, Zhaohui Wang. Effects of plastic film combined with straw mulch on grain yield and water use efficiency of winter wheat in Loess Plateau. <i>Field Crops Research</i>, 2015, 172: 53-58 Yanlong Chen, Ting Liu, Xiaohong Tian*, Xiaofeng Wang, Huilin Chen, Meng Li, Shaoxia Wang, Zhaohui Wang. Improving winter wheat grain yield and water use efficiency through fertilization and mulch in the Loess Plateau. <i>Agronomy Journal</i>, 2015, 107: 2059-2068

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Educational background

From	То	University/Institution	Degree and Major
2004	2007	Institute of Soil and Water	Ph.D, Ecohydrology
		Conservation, Chinese Academy	
		of Sciences	
2001	2004	Northwest University	Master, Environmental Science
1997	2001	Yantai Normal University	Bachelor, Geographical Science

Work experience

From	То	University/Institution	Position
2015	2017	University of Saskatchewan	Visiting Professor
2015	now	Northwest A&F University	Professor
2011	2012	University of Quebec	Visiting Scholar
2009	2014	Northwest A&F University	Associate Professor
2007	2009	Northwest A&F University	Lecturer

From	То	Title of Project	Position	Project Description
2018	2020	Projection of hydrological variability in arid region based on GCM statistical-dynamic downscaling	PI	Develop new techniques to downscale GCM with combined dynamic and statistical methods to generate future climate change scenarios. Then use the generated scenarios as inputs of hydrological models to project runoff and erosion changes.
2018	2020	Source identification and countermeasures of sediment in typical watersheds of China and South Africa	Co-PI	Identify the sediment sources and quantify the impacts of land use and climate change, and further discuss the countermeasures in China and South Africa
2018	2020	Groundwater recharge	PI	Estimate groundwater recharge using

		estimation in the loess tableland based on tritium mass balance methods		tritium as tracer, and quantity the impacts of land use change.
2018	2020	Impact and countermeasures of climate change on agricultural soil and water resources in the middle reaches of China's Yellow River and Serbian Sava watershed	Co-PI	Based on modeling technique, quantify the impacts of climate change on runoff and soil erosion in the Yellow River and Sava watershed, and further discuss the countermeasures

Year		Publication
2018	[1]	Song Xiaoyan, Song Songbai*, Li Zhi*, Liu Wenbin, Li Jiuyi, Kang Yan, Sun Wenyi. Past and
		future changes in regional crop water requirements in Northwest China. Theoretical and Applied
		Climatology, 2018. DOI: 10.1007/s00704-018-2739-3.
	[2]	Peng Shouzhang, Li Zhi*. Incorporation of potential natural vegetation into revegetation programs
		for sustainable land management. Land Degradation & Development, 2018, 29(10): 3503-3511.
		DOI: 10.1002/ldr.3124.
	[3]	Peng Shouzhang, Li Zhi*. Potential land use adjustment for future climate change adaptation in
		revegetated regions. Science of the Total Environment, 2018, 639: 476-484. DOI:
		10.1016/j.scitotenv.2018.05.194.
	[4]	Huang Yanan, Chang Qingrui, Li Zhi*. Land use change impacts on the amount and quality of
		recharge water in the loess tablelands of China. Science of the Total Environment, 2018, 628-629:
		443-452. DOI: 10.1016/j.scitotenv.2018.02.076.
	[5]	Li Zhi*, Shi Xiaoping. Stochastic generation of daily precipitation considering diverse model
		complexity and climates. Theoretical and Applied Climatology, 2018, DOI:
		10.1007/s00704-018-2638-7.
	[6]	Li Zhi*, Si Bingcheng*. Reconstructed precipitation tritium leads to overestimated groundwater
		recharge. Journal of Geophysical Research: Atmospheres, 2018, 123(17): 9858-9867. DOI:
		10.1029/2018JD028405.
2017	[7]	Li Jingjing, Peng Shouzhang, Li Zhi*. Detecting and attributing vegetation changes on China's
		Loess Plateau. Agricultural and Forest Meteorology, 2017, 247: 260-270. DOI:
		10.1016/j.agrformet.2017.08.005.
	[8]	Li Zhi*, Jin Jiming*. Evaluating climate change impacts on streamflow variability based on a
		multisite multivariate GCM downscaling method in the Jing River of China. Hydrology and Earth
		System Sciences, 2017, 21(11): 5531-5546. DOI: 10.5194/hess-21-5531-2017.
	[9]	Li Zhi*, Chen Xi, Liu Wenzhao, Si Bingcheng*. Determination of groundwater recharge mechanism
		in the deep loessial unsaturated zone by environmental tracers. Science of the Total Environment,
		2017, 586: 827-835. DOI: 10.1016/j.scitotenv.2017.02.061.
	[10]	Li Zhi*, Lin Xueqing, Cloes Anna, Chen Xi. Catchment-scale surface water-groundwater
		connectivity on China's Loess Plateau. CATENA, 2017, 152: 268-276. DOI:
	F1 47	10.1016/j.catena.2017.01.026.
	[11]	Li Zhi*, Ning Tingting, Li Jingjing, Yang Daqing. Spatiotemporal variation in the attribution of

	streamflow changes in a catchment on China's Loess Plateau. CATENA, 2017, 158: 1-8. DOI:
	10.1016/j.catena.2017.06.008.
[12]	Li Zhi*, Li Yanping, Shi Xiaoping, Li Jingjing. The characteristics of wet and dry spells for the
	diverse climate in China. Global and Planetary Change, 2017, 149: 14-19. DOI:
	10.1016/j.gloplacha.2016.12.015.
[13]	Li Zhi*, Xiang Wei, Lin Xueqing, Chen Xi, Huang Tianming. Stable isotope tracing of headwater
	sources in a river on the Loess Plateau of China. Hydrological Sciences Journal, 2017, 62(13):
	2150-2159. DOI: 10.1080/02626667.2017.1368519.
[14]	Li Zhi*, Lü Zhemin, Li Jingjing, Shi Xiaoping. Links between the spatial structure of weather
	generator and hydrological modeling. Theoretical and Applied Climatology, 2017, 128(1): 103-111.
	DOI: 10.1007/s00704-015-1691-8.
[15]	Li Zhi*, Shi Xiaoping, Li Jingjing. Multisite and multivariate GCM downscaling using a
	distribution-free shuffle procedure for correlation reconstruction. Climate Research, 2017, 72(2):
	141-151. DOI: 10.3354/cr01460.



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Educational background

From	То	University/Institution	Degree and Major
2008	2009	Visiting scholar	Plant and soil Lab. University of natural
			resources and life sciences, Vienna
2000	2004	Northwestern A&F	Ph.D.
		University, College of	Major in soil and ecology science
		Resources and	
		Environment	
1997	2000	Northwestern A&F	M.F.S.
		University, College of	Major in soil science
		Resources and	
		Environment	
1990	1994	Northwestern	B.S.
		Agriculture University,	Major in soil science
		Department of	
		Resources and	
		Environment	

From	То	Title of Project	Position	Project Description
2019	2023	Pan-Third Pole	Main	Strategic science and technology
		Environment Study	preside	project of the Chinese academy
		for a Green Silk		of sciences.
		Road (Pan-TPE)		2019-2023. Pl. ¥1460,000
2017	2020	Root productivity	Main	Natural Science Foundation of
		and its	preside	China (NSFC)
		contribution to soil		2017-2020. Pl. ¥660,000
		organic carbon		
		sequestration		
		during the		
		revegetation on		
		the hilly-gully		

2016	2020	region in Southern Ningxia Evaluation and regulation of soil service function in Loess Plateau	Main preside	Special-Funds of Scientific Research Programs of State Key Laboratory of Soil Erosion and Dryland Farming on the Loess Plateau.
2016	2020	Analysis of soil organic carbon sequestration and its sources due to vegetation restoration in Loess Plateau	Main preside	2016-2020. PI. ¥1900,000 Strategic Priority Research Program of Chinese Academy of Sciences. 2016-2020. PI. ¥1000,000
2015	2019	Integration and demonstration in fragile ecosystem restoration in ningnan mountain, China	Main preside	Key Projects in the National Science & Technology Pillar Program during the Twelfth Five-year Plan Period. 2015-2019. Pl. ¥300,000
2012	2016	Effects of litters on soil microbial diversity and carbon sequestration in loess hilly regions of China	Main preside	Natural Science Foundation of China (NSFC) 2012-2016. PI. ¥700,000

Year	Publication
2018	Liu Dong, Huang Yimei, An Shaohan, Sun Haiying, Bhople Parag, Chen Zhiwei.
	(2018). Soil physicochemical and microbial characteristics of contrasting
	land-use types along soil depth gradients. Catena, 162,345-353.
2018	Liu Dong, Huang Yimei, An Shaohan. (2018). The restoration age of robinia
	pseudoacacia, plantation impacts soil microbial biomass and microbial
	community structure in the loess plateau. Catena, 165, 192–200.
2018	Liu Dong, Yang Yang, An Shaoshan, Wang Hong I, Wang Ying. (2018). The
	biogeographical distribution of soil bacterial communities in the Loess Plateau
	as revealed by high-throughput sequencing. Frontiers in Microbiology, doi:
	10.3389/fmicb.2018.02456.
2018	Yang Yang, Dou Yanxing, An Shaoshan. (2018). Testing association between soil
	bacterial diversity and soil carbon storage on the loess plateau. Science of the
	Total Environment, 626, 48.

2018	Yang Yang, Dou Yanxing, An Shaoshan, Zhu Zhaolong. (2018). Abiotic and biotic
	factors modulate plant biomass and root/shoot (r/s) ratios in grassland on the
	loess plateau, china. Science of the Total Environment, 636, 621-631.
2018	Bai Xuejuan, Zeng Quanchao, Abbas Fakher, Dong Yanghong, An Shaoshan.
	(2018): Characteristics of soil enzyme activities and microbial biomass carbon
	and nitrogen under different vegetation zones on the Loess Plateau, China,
	Arid Land Research and Management, DOI: 10.1080/15324982.2018.1501621.
2017	Yang Y, Dou Y X, An S S. Environmental driving factors affecting plant biomass
	in natural grassland in the Loess Plateau, China. Ecological Indicators. 2017, 82:
	250–259.
2017	Yang Y, Dou Y X, An S S. Environmental driving factors affecting plant biomass
	in natural grassland in the Loess Plateau, China. Ecological Indicators. 2017, 82:
	250–259.
2017	Yang Y, Dou Y X, Huang Y M, An S S. Links between Soil Fungal Diversity and
	Plant and Soil Properties on the Loess Plateau. Frontiers in Microbiology. 2017,
	07: 1-13.
2017	Zeng Q C, An S, Liu Y. Soil bacterial community response to vegetation
	succession after fencing in the grassland of China. Science of the Total
	Environment, 2017, 609: 2-10.
2016	Quanchao Zeng, Xin Li, Yanghong Dong, Shaoshan An, Frédéric Darboux. Soil
	and plant components ecological stoichiometry in four steppe communities in
	the Loess Plateau of China. Catena 147 (2016) 481–488.
2015	Cheng M, Xiang Y, Xue Z, et al. Soil aggregation and intra-aggregate carbon
	fractions in relation to vegetation succession on the Loess Plateau, China.
	Catena, 2015, 125: 135-145
2015	Cheng M, Xue Z, An S. Response of soil chemical and microbial properties to
	vegetation restoration on the Loess Plateau, China. Nature Environment and
	Pollution Technology, 2015, 14(1):1-8
2015	Cheng M, Xue Z, Xiang Y, et al. Soil organic carbon sequestration in relation to
	revegetation on the Loess Plateau, China. Plant and Soil, 2015, 397(1):31-42.
2014	Xue Z, Fang X, Wang W, et al. Soil organic carbon distribution under different
	land uses and landscape positions in two typical watersheds of the Loess
	Plateau, China. Nature Environment & Pollution Technology, 2014,
	13(4):396-700
2014	Xue Z J, An S S, Cheng M, et al. Plant functional traits and soil microbial
	biomass in different vegetation zones on the Loess Plateau. Journal of Plant
	Interactions, 2014, 9(1): 889-900
2013	An Shao-Shan, Frédéric Darboux, Man Cheng. Revegetation as an efficient
	means of increasing soil aggregate stability on the Loess Plateau (China).
	Geoderma, 2013, 209–210: 75–85.
2013	An Shao-Shan, Cheng Yi, Huang Yi-Mei, Liu Dong, Acosta-Martínez Veronica.
	Effects of revegetation on soil microbial biomass and activities of nutrient
	cycling enzymes on the Loess Plateau in China. Restoration Ecology, 2013, 21:
	600–607.

2013	Xue Zhijing, Cheng Man, An Shaoshan *. Soil nitrogen distributions for different	l
	land uses and landscape positions in a small watershed on Loess Plateau,	
	China. Ecological Engineering, 2013, 60:204–213.	

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Personal information

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Educational background

From	То	University/Institution	Degree and Major
2018	2019	Meiji University (Japan)	Visiting Professor/postdoc
2009	2015	University of Alberta (Canada)	PhD, Water and Land Resources
2003	2009	Northwest A&F University (China)	BSc and Master, Soil and Water
			Conservation and Desertification
			control

Research projects (selected)

From	То	Title of Project	Position	Project Description
2019	2020	Terrestrial water storage change and ecological sustainability assessment of the Loess Plateau based on remote sensing and numerical simulations	PI	To assess the ecological sustainability, reginal climate change, ground water recharge on the Loess Plateau after the "Grain for Green" project using numerical simulations (e.g., GLDAS, WGHM, CLM), remote sensing data (e.g., GRACE, MODIS, TRMM), monitoring network records, and expiermtnal data etc.
2019	2020	Development of thermo-FDR for measurement of unfrozen water, ice and thermal properties of frozen soils	PI	To develop new heat pulse and frequency-domain reflectometry method to accurately measure unfrozen water, ice and thermal properties of frozen soils with experimental and numerical studies
2017	2020	Soil remediation and land reclamation	Co-PI	Physical, chemical and biological method for reclamation of coal mining and polluted soils
2017	2020	Reduced use and improved use efficiency of P fertilizer for calcareous soil in Northern China	Co-PI	Experimental investigations and technical extension of approaches for reduced use and improved use efficiency of P fertilizer for calcareous soil in Northern China while maintaining food security and sustainable agriculture

Publications (selected)

Qifan Wu, Bingcheng Si*, Hailong He*, Pute Wu. Determining regional-scale ground water			
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Dr. Shulan Zhang



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Educational background

From	То	University/Institution	Degree and Major
2002	2005	Swedish University of Agricultural Sciences	PhD in Soil Science
		(Sweden) /Faculty of Forestry	
1989	1992	Northwest Agricultural University (China) /	M.S. in Plant
		Department of Soil and Agriculture Chemistry	Nutrition and
			Fertilization
1985	1989	Northwest Agricultural University (China) /	B.S. in Soil and
		Department of Soil and Agriculture Chemistry	Agriculture
			Chemistry

Research projects

From	То	Title of Project	Position	Project Description
2018	2020	Integrating technology research and	Leader	National Key R&D
		demonstration on reduction of		Program of China
		chemical fertilizer and pesticide in		
		wheat in Fen-Wei plain		
2017	2020	Using process of pre-sowing soil	Leader	National Natural
		water by film mulched winter wheat		Science Foundation
		and its regulating mechanism in the		of China
		Loess Plateau		
2016	2020	Research on mechanism and measures	PI	National Key R&D
		of controlling nitrogen and		Program of China
		phosphorus leaching in cinnamon soil		

Selected Publications

Year	Publication
2019	Hu C., Sadras V., Lu G., Zhang R., Yang X., Zhang S.* Root pruning enhances
	wheat yield, harvest index and water-use efficiency in semiarid area. Field
	Crops Research. 2019, 230,62-71.

2018	Asif Khan, Guoyan Lu, Muhammed Ayaz, Hongtao Zhang, Renjie Wang,
	Fenglian Lv, Xueyun Yang, Benhua Sun, Shulan Zhang *. Phosphorus
	efficiency, soil phosphorus dynamics and critical phosphorus level under
	long-term fertilization for single and double cropping systems. Agriculture,
	Ecosystems and Environment. 2018,256, 1–11.
	J. Xie, B. Peng, R. Wang, J. Batbayar, M. Hoogmoed, Y, Yang, S. Zhang*, X.
	Yang*, B. Sun.2018. Responses of crop productivity and physical protection
	of organic carbon by macroaggregates to long-term fertilization of an
	Anthrosol. European Journal of Soil Science, 2018, 69,555-567.
2017	Junyu Xie, Miaomiao Hou, Yingtian Zhou, Renjie Wang, Shulan Zhang*,
	Xueyun Yang*, Benhua Sun. Carbon sequestration and mineralization of
	aggregate-associated carbon in an intensively cultivated Anthrosol in north
	Chian as affected by long term fertilization. Geoderma, 2017, 296, 1-9.
	Zheng Wang, V.O. Sadras, Xueyun Yang, Xiaoyu Han, Fang Huang, Shulan
	Zhang*. Synergy between breeding for yield in winter wheat and high-input
	agriculture in North-West China. Field Crops Research, 2017,209, 136-143.
	Zheng Wang, V.O. Sadras, Marianne Hoogmoed, Xueyun Yang, Fang Huang,
	Xiaoyu Han, Shulan Zhang*. Shifts in nitrogen and phosphorus uptake and
	allocation in response to selection for yield in Chinese winter wheat. Crop &
	Pasture Science. 2017, 68, 807-816.
2016	Shulan Zhang, Renjie Wang, Xueyun Yang, Benhua Sun & Qinghui Li. Soil
	aggregation and aggregating agents as affected by long term contrasting
	management of an Anthrosol. Scientific Reports 2016, 6:39107, DOI:
	10.1038/srep39107
	Shulan Zhang, Jie Li, Xueyun Yang, Benhua Sun Long-term effects of soil
	management regimes on carbon contents and respiration rates of aggregate
	size fractions. Soil Use and Management. 2016, 32,525-534.
	Shi, Y., Zhao, X., Gao, X., Zhang, S.*, Wu, P*. The Effects of Long-term
	Fertiliser Applications on Soil Organic Carbon and Hydraulic Properties of a
	Loess Soil in China. Land Degrad. Develop 2016, 27, 60-67.