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Study areas

Countries **USA and China**

Region **Region**

Topics of last three projects

- 1 Impacts of land use/cover change on surface water-energy processes
- 2 Impacts of soil heterogeneity on hydrological processes
- 3 Nonpoint source pollution modeling

Envisioned activities in Commission

attend/ organise meetings **yes**
 contribute to publications **yes**
 read newsletter **yes**
 joint research, collaboration **yes**

Other (please specify)

Research interests in water (select maximum 10)

Climate & Water	Hydrological extreme events	Water flow	Surface water	Ground water	Marine Environment	Aquatic habitats/ Ecosystems	Water availability
Water in arid areas <input checked="" type="checkbox"/>	Floods <input type="checkbox"/>	Catchment processes <input checked="" type="checkbox"/>	Limnology <input type="checkbox"/>	Soil water <input checked="" type="checkbox"/>	Coastal waters <input type="checkbox"/>	Wetlands <input type="checkbox"/>	Water utility <input type="checkbox"/>
Arctic water <input type="checkbox"/>	Droughts <input checked="" type="checkbox"/>	Run-off generation <input checked="" type="checkbox"/>	Fluvial dynamics <input type="checkbox"/>	Karst water <input type="checkbox"/>	Estuarine waters <input type="checkbox"/>	Lakes <input type="checkbox"/>	Water storage <input type="checkbox"/>
Water cycle <input checked="" type="checkbox"/>	Ice phenomena <input type="checkbox"/>	Groundwater-Surface water interactions <input type="checkbox"/>	Continental scale processes <input type="checkbox"/>	Hydrogeology <input type="checkbox"/>		Peatlands <input type="checkbox"/>	Dams / Reservoirs <input type="checkbox"/>
Atmospheric water <input type="checkbox"/>		Hyporheic processes <input type="checkbox"/>	Dams / Reservoirs <input type="checkbox"/>	Recharge <input type="checkbox"/>		Rivers <input type="checkbox"/>	Water scarcity <input checked="" type="checkbox"/>
Glaciers & Cryosphere <input type="checkbox"/>		Interstitial water <input type="checkbox"/>	Sediments <input type="checkbox"/>				Supply & Distribution <input type="checkbox"/>
		Porwater <input type="checkbox"/>	Rivers <input type="checkbox"/>				Water allocation <input checked="" type="checkbox"/>
		Alluvial water <input type="checkbox"/>	Floodplains <input type="checkbox"/>				Water restrictions <input type="checkbox"/>

Modelling and GIS	Water quality	Water & Health	Water & Energy	Water management/ policy	Water use	Water Law & Economics	Socio-political aspects
Hydro GIS <input type="checkbox"/>	Pollution <input checked="" type="checkbox"/>	Water & Sanitation <input type="checkbox"/>	Water-Energy nexus <input type="checkbox"/>	Integrated Catchment management <input type="checkbox"/>	Urban <input type="checkbox"/>	Water trade <input type="checkbox"/>	Water history <input type="checkbox"/>
Groundwater modelling <input type="checkbox"/>	Purification <input type="checkbox"/>	Water & Food <input type="checkbox"/>	Water for energy <input type="checkbox"/>	Integrated water resource management <input checked="" type="checkbox"/>	Agricultural <input checked="" type="checkbox"/>	Virtual water <input type="checkbox"/>	Water wars <input type="checkbox"/>
Surface water modelling <input checked="" type="checkbox"/>	Hydrochemistry <input type="checkbox"/>	Waterborne diseases <input type="checkbox"/>	Energy for water <input type="checkbox"/>	Water loss <input type="checkbox"/>	Mine water <input type="checkbox"/>	Privatisation <input type="checkbox"/>	Water & Poverty <input type="checkbox"/>
Remote sensing <input type="checkbox"/>	Treatment <input type="checkbox"/>	Drinking water <input type="checkbox"/>	Water, Food & Energy <input type="checkbox"/>	Reticulation & Supply <input type="checkbox"/>	Industrial <input type="checkbox"/>	Water as public good <input type="checkbox"/>	Access to water <input type="checkbox"/>
	Desalination <input type="checkbox"/>	Water purification <input type="checkbox"/>		Transboundary water <input type="checkbox"/>	Grey water <input type="checkbox"/>	Right to water <input type="checkbox"/>	
	Waste water <input type="checkbox"/>				Green water <input type="checkbox"/>	Bills & Laws <input type="checkbox"/>	
	Sewage <input type="checkbox"/>				Blue water <input type="checkbox"/>	Affordability <input type="checkbox"/>	
					Return water <input type="checkbox"/>		
					Water sustainability <input type="checkbox"/>		
					Competing water use <input type="checkbox"/>		

Other (please specify)

other areas of interest

Research interests in water (supply 5 keywords)

Hydrological modeling

land use/cover change

watershed hydrology

nonpoint source pollution

water resources management

Topics of last 10 publications		Publication links
1	1 He, C., Baoqing ZHANG*, Chansheng HE*, Xiao-pei ZHANG. 2016. Variability of soil hydraulic conductivity and soil hydrological response under different land cover in the Mountainous Area of the Heihe River Watershed, Northwest China. Land Degradation and Development (SCI) (in press)	1
2	2 He, C. 2016. Quantifying Drivers of the Sediment Load Reduction in the Yellow River Basin. National Science Review (SCI), 3(2): 155-156, doi: 10.1093/nsr/nw014.	2
3	3 Zhang, Lanhui, Chansheng He*, Baoqing ZHANG, Xifeng ZHANG, Chen ZHAO, Jinlin Li, Jie Tian and Carlo DeMarchi. 2016. Modeling irrigation management for water conservation by OSSAT Model in arid Northwestern China. Agricultural Water Management (SCI), 177:37-45, http://dx.doi.org/10.1016/j.agwat.2016.06.014.	3
4	4 Zhang, Baoqing and Chansheng He*. 2015. A modified water demand estimation method for drought identification over arid and semiarid regions. Agricultural and Forest Meteorology (SCI), http://dx.doi.org/10.1016/j.agrformet.2015.11.015.	4
5	5 ZHANG, Lanhui, Xin JIN, Chansheng HE*, Baoqing ZHANG, Xifeng ZHANG, Chen ZHAO, Jinlin Li, Jie Tian and Carlo DeMarchi. 2016. Comparison of a concept model and a physically-based model for hydrological modeling of a mountainous watershed in arid Northwest China. Journal of Hydrologic Engineering (SCI), 21(5): 04016007, DOI: 10.1061/(ASCE)JHE.1943-5584.0001313.	5
6	6 ZHANG, Baoqing, Chansheng He*, Morey Burnham, and Lanhui Zhang. 2015. Evaluating vegetation cover response to drought and their coupling effects on runoff and sediment yield on the Loess Plateau, China. Science of the Total Environment, 539:436-449 (SCI), http://dx.doi.org/10.1016/j.scitotenv.2015.08.132.	6
7	7 Jin, X, L. Zhang, J. Gu, C. Zhao, J. Tian, and C. He*. 2015. Modeling the Impacts of Spatial Heterogeneity in Soil Hydraulic Properties on Hydrologic Process in the Upper Reach of the Heihe River in the Qilian Mountains, Northwest China. Hydrological Processes (SCI), 29(15):3318-3327, DOI:10.1002/hyp.10437.	7
8	8 Zhang, L., S. Wang, C. He*, K. Shang, L.Meng, X.Li, and B. M. Lofgren. 2015. A new method for instant correction of Numerical Weather Prediction Products in China. Science China-Earth Sciences (SCI) 58(2):231-244, doi: 10.1007/s11430-014-4957-6.	8
9	9 Zhang, X., L. Zhang, C. He*, J. Li, and Y. Jiang. 2014. Quantifying the impacts of land use/ land cover change on groundwater depletion in Northwestern China - a case study of the Dunhuang Oasis. Agricultural Water Management (SCI), 146:270-279, http://dx.doi.org/10.1016/j.agwat.2014.08.017..	9
10	10 He, C., L. Zhang, C. DeMarchi, and T.E. Croley II. 2014. Estimating Spatial Distribution of Point and Nonpoint Sources Pollution Loads in the Saginaw Bay Watersheds Journal of Great Lakes Research Supplement (SCI) 40 (2014) 11–17, http://dx.doi.org/10.1016/j.jglr.2014.01.013.	10