


MEMBER PROFILE

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Study areas	
Countries / Regions	China / Africa, Asia, Global

Topics of last three projects	
1	China's water scarcity: evolution and driving forces
2	Water footprint and virtual water in China
3	China's ecosystem services and management

<u>Topics of last 10 publications</u>		<u>Publication links</u>
1	Manage water in a green way [Science]	http://science.sciencemag.org/content/349/6248/584.2
2	Reduced carbon emission estimates from fossil fuel combustion and cement production in China [Nature]	http://www.nature.com/nature/journal/v524/n7565/abs/nature14677.html
3	A high-resolution assessment on global nitrogen flows in cropland [PNAS]	http://www.pnas.org/content/107/17/8035.short
4	Physical and virtual water transfers for regional water stress alleviation in China [PNAS]	http://www.pnas.org/content/112/4/1031.short
5	China's rising hydropower demand challenges water sector [Scientific Report]	http://www.nature.com/articles/srep11446?message-global=remove&WT.ec_id=SREP-704-20150714&spMailingID=49093431&spUserID=ODkwMTM2NjQzMwS2&spJobID=721741050&spReportId=NzIxNzQxMDUwS0
6	Assessing the land resource–food price nexus of the Sustainable Development Goals [Science Advances]	http://advances.sciencemag.org/content/2/9/e1501499
7	Ten-year variability in ecosystem water use efficiency in an oak-dominated temperate forest under a warming climate. [Agricultural and Forest Meteorology]	http://www.sciencedirect.com/science/article/pii/S0168192315300204
8	Burden shifting of water quantity and quality stress from megacity Shanghai [Water Resources Research]	http://onlinelibrary.wiley.com/doi/10.1002/2016WR018595/full
9	A comparison of changes in river runoff from multiple global and catchment-scale hydrological models under global warming scenarios of 1°C, 2°C and 3°C. [Climate Change]	http://link.springer.com/article/10.1007/s10584-016-1773-3
10	Food Losses and Waste in China and Their Implication for Water and Land [EST]	http://pubs.acs.org/doi/abs/10.1021/es401426b

Research interests in water

Climate & Water	Water in arid areas	Arctic water	Water cycle	Atmospheric water	Glaciers & Cryosphere					
Hydrological extreme events	Floods	Droughts	Ice phenomena							
Water flow	Catchment processes	Run-off generation	Groundwater-Surface water interactions	Hyporheic processes	Interstitial water	Porewater	Alluvial water			
Surface water	Limnology	Fluvial dynamics	Continental scale processes	Dams / Reservoirs	Sediments	Rivers	Floodplains			
Ground water	Soil water	Karst water	Hydrogeology	Recharge						
Marine Environment	Coastal waters	Estuarian waters								
Aquatic habitats/ Ecosystems	Wetlands	Lakes	Peatlands	Rivers						
Water availability	Water utility	Water storage	Dams / Reservoirs	Water scarcity	Supply & Distribution	Water allocation	Water restrictions			
Modelling and GIS	Hydro GIS	Groundwater modelling	Surface water modelling	Remote sensing						
Water quality	Pollution	Purification	Hydrochemistry	Treatment	Desalination	Waste water	Sewage			
Water & Health	Water & Sanitation	Water & Food	Waterborne diseases	Drinking water	Water purification					
Water & Energy	Water-Energy nexus	Water for energy	Energy for water	Water, Food & Energy						
Water management/ policy	Integrated Catchment management	Integrated water resource management	Water loss	Reticulation & Supply	Transboundary water					
Water use	Urban	Agricultural	Mine water	Industrial	Grey water	Green water	Blue water	Return water	Water sustainability	Competing water use
Water Law & Economics	Water trade	Virtual water	Privatisation	Water as public good	Right to water	Bills & Laws	Affordability			
Socio-political aspects	Water history	Water wars	Water & Poverty	Access to water						