



MEMBER PROFILE

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Study areas	
Countries / Regions	South Africa / Western Cape

Topics of last three projects	
1	Groundwater protection
2	Aquifer Characteristics
3	Surface water and groundwater interaction

	<u>Topics of last 10 publications</u>	<u>Publication links</u>
1	Sarma D, Xu Y. (2016). "The recharge process in alluvial strip aquifers in arid Namibia and implication for artificial recharge"	Hydrogeol J, published online: 01 October 2016. DOI: 10.1007/s10040-016-1474-z
2	Nonterah C, Xu Y, Osaе S, Akiti TT and Dampare SB. (2015). "A review of the ecohydrology of the Sakumo wetland in Ghana"	Environ Monit Assess (2015) 187: 671, DOI: 10.1007/s10661-015-4872-0
3	Seward P, Xu Y, Turton A. (2015b). "Using backcasting to explore ways to improve the national water department's contribution to good groundwater governance in South Africa", Water International, DOI: 10.1080/02508060.2015.1036390	Water International, DOI: 10.1080/02508060.2015.1036390
4	Seward P, Xu Y, Turton A. (2015a). "Investigating a spatial approach to groundwater quantity management using radius of influence with a case study of South Africa"	Water SA Vol. 41 No. 1 January 2015
5	Sun Xiaobin, Yongxin Xu, lixiang Lin (2014). "The diagnostic plot analysis of artesian	Hydrogeology Journal, published online: 23 November (2014) DOI 10.1007/s10040-014-1203-4, Springer.
6	Yongxin Xu. (2014). "Book review: Canada's Groundwater Resources, edited by Alfonso	Hydrogeology Journal, published online: 05 September (2014) DOI 10.1007/s10040-014-1175-4, Springer
7	Zhao X, Chen X, Xu Y, Xi D, Zhang Y and Zheng X. (2017). "An EMD-Based Chaotic Least Squares Support Vector Machine Hybrid Model for Annual Runoff Forecasting"	Water 2017, 9(3), 153; doi:10.3390/w9030153
8	Jia Z, Zang H, Zheng X and Xu Y. (2017). "Climate Change and Its Influence on the Karst Groundwater Recharge in the Jinci Spring Region, Northern China"	Water 2017, 9, 267; doi:10.3390/w9040267
9	Jia Z, Zang H, Hobbs H, Zheng X, Xu Y and Wang K. (2017). "Application of inverse modeling in a study of the hydrogeochemical evolution of karst groundwater in the Jinci Spring region, northern China"	Environ Earth Sci (2017) 76:312, DOI 10.1007/s12665-017-6631-8
10	Miao C, Chen J, Zheng X, Zhang, Xu Y and Du Q (2017). "Soil Water and Phreatic Evaporation in Shallow Groundwater during a Freeze–Thaw Period"	Water 2017, 9, 396; doi:10.3390/w9060396

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						