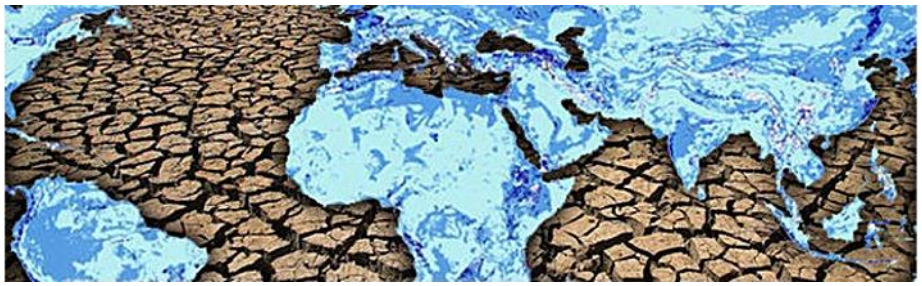
Commission for Water Sustainability



MEMBER PROFILE

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Study areas	
Countries / Regions	P.R.China / Shanghai

Topics of last three projects	
1	The migration mechanism and remediation techniques of representative PhACs in vadose zone.
2	Study on the occurrence and control technologies of representative PPCPs in groundwater.
3	Study on removal and resource technique of heavy metal in industrial water using Iron-based nano-materials.

Topics of last 10 publications		Publication links
1	Y. Zhang, J. Yan, C. Dai*, Y.Li,Y. Zhu, X. Zhou.Sequestration of Ag(I) from aqueous solution as Ag(0) nanostructures by nanoscale zero valent iron (nZVI). Journal of nanoparticle research,2015,17(11),455.	https://link.springer.com/article/10.1007/s11051-015-3256-2
2	Y. Zhang, W. Chen, C. Dai*, C Zhou, X Zhou. Structural Evolution of Nanoscale Zero-Valent Iron (nZVI) in Anoxic Co2+ Solution: Interactional Performance and Mechanism, Scientific reports, 5, 2015.	https://www.nature.com/articles/srep13966
3	Zhang, YL ; Yin, ZF; Dai, CM*; Zhou, XF (Zhou Xuefei); Chen, W ，Interfacial thermodynamics and kinetics of sorption of diclofenac on prepared high performance flower-like MoS2，JOURNAL OF COLLOID AND INTERFACE SCIENCE, 2016, 481: 210-219.	https://www.ncbi.nlm.nih.gov/pubmed/27475708
4	He, YZ; Dai, CM*, Zhou, XF*.Magnetic cobalt ferrite composite as an efficient catalyst for photocatalytic oxidation of carbamazepine，Environmental Science and Pollution Research, 2017, 24（2）:2065–2074.	https://link.springer.com/article/10.1007/s11356-016-7978-1
5	Liu, SG; Tao, A; Dai, CM* ; Tan, B; Shen, H; Zhong, GH; Lou, S ; Chalov, S; Chalov, R . Experimental Study of Tidal Effects on Coastal Groundwater and Pollutant Migration. WATER AIR AND SOIL POLLUTION.2017,288(4):163.	https://link.springer.com/article/10.1007/s11270-017-3326-4
6	S. LIU, B. TAN, C. Dai*, S. LOU, A. TAO. Geochemical characterization and heavy metal migration in a coastal polluted aquifer incorporating tidal effects: field investigation in Chongming Island, China. Environmental Science and Pollution Research, 2015,	https://www.ncbi.nlm.nih.gov/pubmed/26300351
7	Z. Zhou， C. Dai*, X. Zhou， J. Zhao, Y. Zhang. The Removal of Antimony by Novel NZVI-Zeolite: the Role of Iron Transformation.Water, Air, & Soil Pollution. 226(3):76-92, 2015	https://www.researchgate.net/publication/276394649_The_Removal_of_Antimony_by_Novel_NZVI-Zeolite_the_Role_of_Iron_Transformation
8	W. Liang, C. Dai*, X. Zhou, Y. Zhang. Application of zero-valent iron nanoparticles for the removal of aqueous zinc ions under various experimental conditions. PLoS One, 9(1): e85686, 2014	http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0085686
9	Y. Zhang, Y. Liu, C. Dai*, X. Zhou. Adsorption of Clofibric Acid from Aqueous Solution by Graphene Oxide and the Effect of Environmental Factors. Water Air Soil Pollut, 225: 2064, 2014.	https://link.springer.com/article/10.1007/s11270-014-2064-0
10	Z. Wen, Y. Zhang, C. Dai*. Removal of Phosphate from Aqueous Solution Using NanoscaleZerovalent Iron (nZVI). Colloids and Surfaces A: Physicochemical and Engineering Aspects, 457: 433–440, 2014.	http://www.sciencedirect.com/science/article/pii/S092777571400555X

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						