

Department of Groundwater Sciences and Engineering

地下水科学与工程系



HUANG WENFENG 黄文峰

Email: huangwenfeng@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/hwf/list.htm>

Research area or direction

Lake ice physics and hydrometeorology

Ice-covered lake environment and ecosystems and their relations with ice/snow processes

Ice problems in hydraulic engineering



XU PANPAN 徐盼盼

Email: panpanxu@chd.edu.cn

HomePage:

https://js.chd.edu.cn/hjkxygcxy/xpp_en/list.htm

Research area or direction

1. Porous media seepage mechanism
2. Mechanism of Loess Catastrophe
3. Evolution of groundwater environment
4. Environmental hydrogeochemistry



HUI QIAN 钱会

Email: qianhui@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/qh100/list.htm>

Research area or direction

1. Groundwater and Environment.
2. Hydrogeochemistry.
3. Groundwater-Surface water interaction.



CHEND DONGHUI 程东会

Email: chdhubsh@chd.edu.cn

Home Page: <http://js.chd.edu.cn/hjkxygcxy/cdh/list.htm>

Research area or direction

1. The trapping dynamics with respect to the gases in groundwater system and quasi-saturated groundwater flow;
2. Bubble flow in saturated porous media;
3. Interface and surface physics in groundwater system;
4. Paleo-groundwater, geological cycle of water, deep hydrogeology, and planetary hydrogeology.



ZHENG HAN 郑涵

Email: zhenghan@chd.edu.cn

Research area or direction

1. Carbon, water and energy exchange between land surface and atmosphere;
2. Ecohydrology and water use efficiency of terrestrial ecosystems.



QIAO XIAOYING 乔晓英

Email: qiaoxiaoy@163.com

Research area or direction

1. Groundwater hydrological processes and its ecological environmental effect in Arid and semi-arid areas;
2. Transport characterization for moisture, water vapor and heat and its effect on vegetation ecology;
3. GIS/RS application in groundwater and ecological environment



WANG NING 王宁

Email: ning.wang@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/wn8/list.htm>

Research area or direction

- 1) Watershed Hydrology
- 2) Hydrological modeling
- 3) Surface water and groundwater interaction



DENG LIN 邓林

Email: deng_lin@chd.edu.cn

Research area or direction

Groundwater and environmental changes



ZHENG CE 郑策

Email: zhengce@chd.edu.cn

Research area or direction

1. Soil liquid and vapor flow
2. Water transfer effects in cold and arid areas
3. Model development and numerical simulation



YANG ZEYUAN 杨泽元

Email: yangzeyu@chd.edu.cn

Home Page: [杨泽元 \(chd.edu.cn\)](http://yangzeyu.chd.edu.cn)

Research area or direction

1. The relationship between groundwater and its eco-environment in arid regions;
2. The coupling transport among water, vapour and heat in vadose zones of arid regions;
3. The application of Remote Sensing(RS), Geographical Information System(GIS) and Global Positioning System(GPS) in water resources and environment.



CHEN JIE 陈洁

Email: jiechen17@chd.edu.cn

Research area or direction

1. Hydrogeology and groundwater hydrochemistry
2. Surface water-groundwater interaction
3. Water environment and protection in arid regions



Prof. Peiyue Li 李培月

Email: lipy2@163.com, peiyueli@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/lpy/list.htm>

Research area or direction

Hydrology and water resources
Groundwater quality and public health
Groundwater resources assessment and management
Hydrogeochemical processes of groundwater evolution



LI WANXIN 李婉歆

Email: wanxinli@chd.edu.cn

Research area or direction

1. Mechanism of evaporation over the soil-atmosphere interface and water-atmosphere interface in arid regions.
 2. Water-heat coupling, heat and mass transfer in saturated porous media.
 3. Influence of soil textures on infiltration and evaporation processes in arid regions based on site experiments.
-



ZHANG ZAIYONG 张在勇

Email: zaiyongzhang@126.com

Home Page: <https://js.chd.edu.cn/hjkxygcxy/zzy101/list.htm>

Research area or direction

Numerical simulation of groundwater

Finite analytic method

Soil moisture movement in vadose zone



AN YONGKAI 安永凯

Email: anyk666@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/ayk/list.htm>

Research area or direction

1. Interaction and Fully Coupling Simulation of Surface Water and Groundwater

2. Data Assimilation of Land Surface Hydrological Process

3. Intelligent Identification of Groundwater Pollution

4. Uncertainty of Hydrological Models



Yanwei Lu 陆彦玮

Email: yanwei.lu@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/lyw/list.htm>

Research area or direction

Soil hydrological processes and ecological effects

Isotopic ecohydrological tracing

Soil physical and hydrological characteristics



LIU XIUHUA 刘秀花

Email: liuxh68@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/lxh103/list.htm>

Research area or direction

Water cycle in soil

Hydro-ecology cycle in arid region

Water flow and solute transport processes in soils and groundwater

Microbial and nutrient cycling in soil



WANG ZHENHONG 王震洪

Email: w_zhenhong@126.com

Home Page: <https://esec.chd.edu.cn/info/1136/1327.htm>

Research area or direction

1. Watershed ecological restoration
 2. Non-point source pollution control
 3. Mountain ecological and natural protection
-

Department of Hydraulic Engineering

水文水资源系



ZHANG HONGBO 张洪波

Email: hbzhang@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/zhb101/list.htm>

Research area or direction

1. Hydrologic Modeling and Simulation
 2. Eco-hydrological Maintenance and disaster prevention
 3. Water Resources Management
-



LUO PINGPING (罗平平)

Email: lpp@chd.edu.cn

Home page: <https://esec.chd.edu.cn/info/1136/1326.htm>

Research area or direction

1. Hydrological modelling
 2. Flood disaster
 3. Water resource management and Environmental Engineering
-



LIU ZHAO 刘招

Email: lz975@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/lz104/list.htm>

Research area or direction

Hydrology, Water resources management, Drought analysis and early warning, Reservoir operation and flood control, Uncertainties and risks in hydraulic engineering, Hydroecology, The key techniques in construction of CFRD (Concrete Face Rockfill Dam).



YANG YINKE 杨银科

Email: yangyink@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/yyk/list.htm>

Research area or direction

1. River runoff change and climate response;
 2. Water environment and water ecology;
 3. Water resources planning and management;
 4. Water events and geological hazards;
 5. Environmental evolution and surface processes.
-



WU JIANHUA (吴健华)

Email: wjh2005xy@126.com; wujianhua@chd.edu.cn

Home page: <https://js.chd.edu.cn/hjkxygcxy/wjh100/list.htm>

Research interest:

Hydrology and water resources, Groundwater quality and public health, Groundwater resources assessment and management, Hydrogeochemical processes of groundwater evolution



LYU JIQIANG (吕继强)

Email: lvjiqiang0721@chd.edu.cn

Homepage: [<https://js.chd.edu.cn/hjkxygcxy/ljq/list.htm>]

Research area or direction

1. water resources utilization and conservation
 2. Flood disaster management
 3. Watershed hydrological model
 4. Ecological environment protection.
-



Li JUNYUAN 李军媛

Email: ljy@chd.edu.cn

Research area or direction

1. Hydro-ecology and water security
 2. Pollutant information analysis and recognition
 3. Climate change and water environment
-



HUO AIDI 霍艾迪

Email: huoaide@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/had/list.htm>

Research area or direction

1. River-groundwater conversion mechanism
 2. Watershed hydrological model
 3. Groundwater numerical modeling
 4. Application of remote sensing in hydrological ecology
 5. Water conservancy and agricultural informatization
-



HE JUNQI 贺军奇

Email: hejunqi@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/hjq/list.htm>

Research area or direction

1. Hydro-ecology and water security
2. Efficient utilization of water and soil resources in irrigation areas
3. Planning and design of ecological irrigation areas
4. Water environmental and plant healthy.



SHI WENHAI 史文海

Email: shiwenhai@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/swh/list.htm>

Research area or direction

1. Multi-scale ecohydrological processes
2. Land surface water and soil processes
3. Nutrient cycle of Earth critical zone
4. Soil erosion and water conservation



CHENG DAWEI 程大伟

Email: cheng198493@qq.com

Home Page: <https://js.chd.edu.cn/hjkxygcxy/cdw/list.htm>

Research area or direction

1. Pore fluid displacement mechanism in unsaturated soil;
 2. Surface water-groundwater transformation mechanism;
 3. Pollution transfer mechanisms and control technologies for site-scale pollution;
 4. Mathematical model of water environment;
 5. Structural and mechanical characteristics of unsaturated soil;
 6. Concrete damage under the coupling action of freeze-thaw and salt erosion.
-

Department of Environmental Sciences and Engineering

环境科学与工程系



LEI DUAN 段磊

Email: duanlei1978@126.com

Home Page: https://js.chd.edu.cn/hjkxygcxy/dl_7400/list.htm

Research area or direction

1. Prevention and control of soil and water pollution risks
2. Regional groundwater environmental evolution and its ecological effects



WENKE WANG 王文科

Email: wenkew@chd.edu.cn

Home Page: <https://esec.chd.edu.cn/info/1136/1354.htm>

Research area or direction

1. Prevention and control of soil and water pollution risks
2. Interaction between surface water and groundwater
3. Numerical simulation of groundwater flow
4. Development and utilization of groundwater resources and ecological protection



WANG ZHOUFENG 王周锋

Email: wangzf@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/wzf100/list.htm>

Research area or direction

1. The coupling cycles of water and carbon in critical zones of the Earth
2. The coupling mechanism of water, gas and heat transport in the vadose zone.



ZHANG QIAN-QIAN 张倩倩

Email: anammox@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/zqq/list.htm>

Research area or direction

1. Biological nitrogen removal performance and its mechanism,
 2. Environmental remediation,
 3. Antibiotic resistance gene control technology.
-



DING FEI 丁飞

Email: feiding@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/df100/list.htm>

Research area or direction

1. Environmental Chemistry and Toxicology
2. Environmental Pollution and Health



ZHANG XIAOLING 张小玲

Email: zhangxiaoling101@126.com

Research area or direction

1. Sewage treatment and resource utilization
2. Sludge treatment and resource utilization
3. Partial nitrification and anaerobic ammonia oxidation



HAN RONG 韩融

Email: hanrong@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/hr100/list.htm>

Research area or direction

1. Solid waste disposal and resource utilization
2. Hydrogen production by biomass pyrolysis or gasification
3. Biogeochemical cycle of nitrogen in lake sediment



YANG WENJUAN 杨文娟

Email: ywj_xa@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/ywj100/list.htm>

Research area or direction

1. Wastewater Treatment and Resource Recovery
 2. Traffic Environmental Protection
-



ZHANG LIYUAN 张力元

Email: zly2017@chd.edu.cn;

Home page: <https://js.chd.edu.cn/hjkxygcxy/zly101/list.htm>;

Research areas or direction

1. Atmospheric Aerosol
2. VOCs pollution and Environmental risks evaluation



CHEN YUYUN 陈宇云

Email: chenyuyu@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/cyy/list.htm>

Research area or direction

1. Effects of microplastics on other pollutants in the environment
2. Multi-media environmental processes of organic pollutants
3. Organic pollution control process



LI SIWEN 李斯文

Email: swli@chd.edu.cn

Home Page: <http://js.chd.edu.cn/hjkxgcxy/lsw2/list.htm>

Research area or direction

1. Automobile exhaust treatment - Research on oxidative desulfurization of gasoline and diesel;
2. Preparation, research of organic-inorganic homogeneous and heterogeneous porous catalysts;
3. Research on heteropolyacids and its application in air pollution prevention.



LI YANPENG 李彦鹏

Email: liyanp01@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/lyp100>

Research area or direction

1. Bioaerosols and Air Quality & Their Environmental Health
 2. Microalgae Bioenergy Conversion Technology
-



WEI XIAO 卫潇

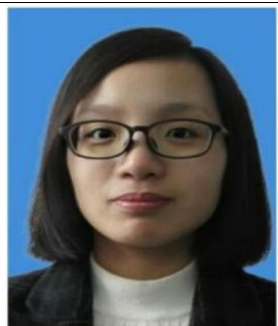
Email: chdwx@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/wx101/list.htm>

Environmental Science and Engineering

Research area or direction

- 1.Environmental protection functional materials
- 2.Environmental analytical chemistry
- 3.Waste utilization and recycling



ZHOU MEIMEI 周美梅

E-mail: mmzhou@chd.edu.cn

Major: environmental engineering

Research area or direction

- 1.Development and application of environment functional materials
- 2.Water pollution control technology



GUO JIFENG 郭冀峰

Email: guojifeng@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/gjf100/list.htm>

Research area or direction

1. Water pollution control and resource utilization
2. Environmental functional materials



SUN YONGCHANG 孙永昌

Email: ycsun@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/syc/list.htm>

Research area or direction

- 1.The groundwater/soil pollution control and remediation of groundwater and soil.
 - 2.Functional and nanomaterials preparation and utilization.
 - 3.Preparation of environmental functional materials such as biochar-and nano zerovalent iron (nZVI)-based materials.
-



BAIMING REN 任柏铭

E-mail: baiming.ren@chd.edu.cn

Home Page: https://js.chd.edu.cn/hjkxygcxy/rbm_en/list.htm

Research area or direction

The focus of his research brings well-rounded interdisciplinary efforts in the area of environmental engineering. This effort emphasizes the integration of drinking water treatment plant residues, wastewater treatment and constructed wetlands, conjunctive use of environmental/ecological engineering processes, computational methods and information technologies to advance our understanding of large, complex, and integrated environmental systems under the impacts of global change. This integration enables the development of new (nature-based) solutions to improve environment. Also, it generates new thinking in the management of environment-related risks, variability and change.



WANG QIZHAO 王其召

Email: qzwang@chd.edu.cn; wangqizhao@163.com

Home Page: https://js.chd.edu.cn/hjkxygcxy/wqz_en/list.htm

Research area or direction

1. Photocatalysis;
2. Heterogeneous catalysis;
3. Energy materials;
4. Photoelectrochemistry;
5. Water/air pollution control.



HUANG LIHUI 黄立辉

Email: huanglh@chd.edu.cn

Research area or direction:

1. Environmental Science and Engineering
 2. Research of Expertise:
 3. Air pollution, indoor air quality, exposure measurement and risk assessment
-



LI PEI 李佩

Email: lipei2022@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/lp2/list.htm>

Research area or direction

1. Agricultural hydrological cycle processes
2. Water and soil resources and environmental management
3. “ Soil-water-food-economy ” nexus



CHEN YING 陈莹

Email: cy0818cy@126.com

Research area or direction

1. Traffic environmental protection research
 2. Urban runoff pollution theory and research
-

Department of Chemical Engineering

化学工程系



DING ZHAN 丁湛

Email: dingzhan@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/dz100/list.htm>

Research area or direction

1. Theory and technology of waste recycling
 2. Development and application of sustainable and environment-friendly transportation materials
 3. Technology of energy saving, emission reduction and ecological restoration
-



LV XIANGFEI 吕向菲

Email: lvxf@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/lxf102/list.htm>

Research area or direction

1. “Life pigment” porphyrin-based polymers;
 2. Chemical analysis of flocs under dry-wet cycle
-



YE LINJING 叶林静

Email: yelinjing456@126.com

Home Page: <https://js.chd.edu.cn/hjkxygcxy/ylj100/list.htm>

Research area or direction

Design of photocatalytic materials and wastewater treatment technology



WANG WEI 王伟

Email: wwchem@chd.edu.cn

Home Page: <https://esec.chd.edu.cn/info/1136/1332.htm>

Research area or direction

1. Surface modification of porous ceramics and catalytic pollution control,
 2. Synthesis of conductive polymers and the electrochemical capacitance properties
-



ZHOU ZHAOHUI 周朝晖

Email: zzhlax@chd.edu.cn; zzhlax@live.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/zch101/main.psp>

Researchgate: <https://www.researchgate.net/profile/Zhaohui-Zhou-3>

Research area or direction

1. Non-adiabatic molecular dynamics simulations on ultrafast charge carrier relaxation and recombination in photoanode materials
2. DFT based first-principles calculations on properties of photoanode materials and simulations on water splitting reaction on catalysts
3. Experimental and theoretical simulation studies on CO₂ reduction reaction on metal cathodes



JIANG LING 姜凌

Email: tojling@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/jl100/list.htm>

Research area or direction

1. Preparation and application of biomass materials.
2. Remediation technology of heavy metal contaminated soil.
3. Water pollution treatment.



YANG LI 杨莉

mail: yyangli@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/yl105/list.htm>

Research area or direction

Environmentally Friendly Materials and Renewable Resource Utilization



JIA XIA 贾夏

Email: jiaxianavy@163.com

Home page: <https://js.chd.edu.cn/hjkxygcxy/jx/list.htm>

Research area or direction

1. Global change
 2. Pollution Ecology
 3. Soil pollution remediation
-



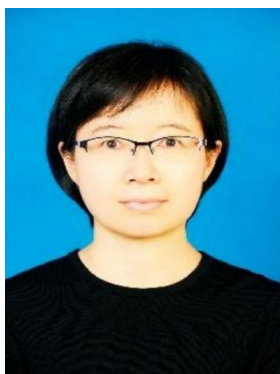
JIA YUEFA 贾悦发

Email: yuefajia@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/jyf2/list.htm>

Research area or direction

1. Heterogeneous photocatalysts for catalytic degradation of organic pollutants
2. Adsorption technologies for water treatment and resources reuse
3. Photoreduction of CO₂ via inorganic non-metallic nanomaterials



CHAI LIHONG 柴丽红

Email: chailh@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/clh100/list.htm>

Research areas or direction

1. Ecotoxicology
2. Environmental effects of chemical pollutants



DOU YAN 窦妍

Email: douyan@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/dy101/list.htm>

Research area or direction

1. Groundwater pollution migration mechanism
2. Groundwater circulation and evolution in arid and semi-arid areas
3. Interaction between surface water and groundwater
4. Theories and methods of hydrochemistry and isotope hydrology



LI YULIANG 李宇亮

Email: yulianglee175@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/lyl101/list.htm>

Research area or direction

1. Separation and analysis of micro-trace pollutants by the new green separation system;
 2. Application of functional materials synthesis in pollutant degradation and energy development;
 3. Research on the development of new materials and energy conversion with lignin;
 4. Isotopic tracing of nitrogen sources and processes.
-



LUO YU 罗钰

Email: 13289367808@163.com

Home Page: https://js.chd.edu.cn/hjkxygcxy/ly_10148/list.htm

Research area or direction

- 1.Preparation and properties of micro and nanomaterials;
- 2.PRB remediation of contaminated groundwater technology;
- 3.Electric Fenton treatment of industrial wastewater.



BAI BO 白波

Email: baibo@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/bb100/list.htm>

Research area or direction

1. Utilization of solid waste biological resources,;
2. Preparation of functional nanomaterials and their application in water treatment



SUNYUKUN 孙钰琨

Email: sun200044@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/syk/list.htm>

Research area or direction

1. Atmospheric pollutant control chemistry;
2. Catalytic degradation of volatile organic pollutants (VOCs);
3. Atmospheric water collection



HAN FENG 韩枫

Email: hanfeng@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/hf102/list.htm>

Research area or direction

1. Environmental geochemical behavior of emerging contaminants;
2. Soil environmental pollution research and control.



XING JIANYU 邢建宇

Email: xingjy@chd.edu.cn

Home Page: <https://js.chd.edu.cn/hjkxygcxy/xjy/list.htm>

Research area or direction

- 1.Synthesis of functional materials and their application in environmental pollutant control;
 2. Comprehensive utilization of biomass resources;
 - 3.Research on the application of nanomaterials in the field of catalysis
-



WEI ZHENGWEN 魏徵文

Email: zhengwenchem@163.com

Research area or direction

- 1.Environmental micro-and nanomaterial assembly;
- 2.Adsorption and degradation of organic pollutants;
- 3.Investigation of microenvironmental mechanisms based on density functional theory calculations



WANG PENGQIAN 王鹏乾

Email: pqwangcd@chd.edu.cn

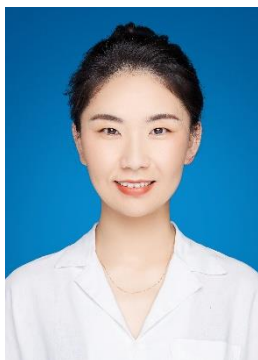
Home Page: <https://js.chd.edu.cn/hjkxygcxy/wpq>

Research area or direction:

- 1.High-value utilization of solid waste and fossil fuel.
- 2.Renewable energy and pollutant emission control.
- 3.CFD and molecular reaction dynamics simulation.
- 4.Energy system optimization.

Water Resources and Environmental Engineering Laboratory

水资源与环境工程实验中心



ZHAO YAN 赵艳

Email: yanzhao@chd.edu.cn

Home Page: https://js.chd.edu.cn/hjkxygcxy/zy_10130/list.htm

Research area or direction

1. Soil and Water Pollution and Remediation Mechanisms (Laws of Pollutant Migration and Transformation, Mechanisms of Soil and Water Pollution Remediation, Research and Development of Collaborative Remediation Technologies)
 2. CO₂ Geological Storage and Utilization (CO₂ Storage in Saline Aquifers, Coal Seams, and Oil Fields, Seepage Behavior Characteristics in Porous Media, Mechanisms of Two-Phase and Multi-Phase Flow Displacement)
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