南科大 环境学院
SUSTech | School of Environment

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南方科技大学 SOUTHERN UNIVERSITY OF SCIENCE AND TECHNOLOGY | 南科大 环境学院 SUSTech | School of Environment

SOUTHERN UNIVERSITY OF
SCIENCE AND TECHNOLOGY

SCHOOL OF ENVIRONMENT

南方科技大学
环境科学与工程学院

SUSTech | School of Environment

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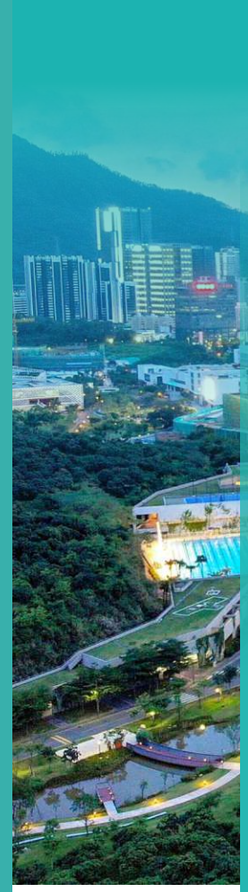

概述
Overview

南方科技大学于2015年6月成立了环境科学与工程学院。经过十年的发展，学院已形成鲜明的环境地球科学与环境信息技术学科特色，现阶段主要在水环境与水资源、大气环境与全球变化、低碳发展与资源循环、环境与健康四个领域开展前沿研究和人才培养。新获批的土壤污染防治与安全全国重点实验室旨在地下水污染防治工程技术方面不断开拓创新。学院同时充分发挥粤港澳大湾区高新技术产业集群优势，致力于培养满足“美丽中国”建设和全人类可持续发展需求的生力军。

Established in June 2015, the School of Environmental Science and Engineering has spent the past decade carving out a distinct identity in Environmental Geosciences and Environmental Information Technology. Research and talent development at the school currently converge on four frontier domains: Water Resources, Atmospheric Environment and Global Change, Low-carbon Development and Resource Recycling, and Environment and Health. This mission is bolstered by the newly funded State Key Laboratory of Soil Pollution Control and Safety, which drives innovation in groundwater remediation technologies. Situated in the heart of the Guangdong-Hong Kong-Macao Greater Bay Area, the school leverages regional industrial clusters to prepare a new generation of professionals committed to the "Beautiful China" initiative and global sustainability.

目标
Mission

拔尖创新人才的培养基地
Educate future leaders and problem-solvers

世界一流环境科学研究中心
Advance fundamental research across Earth’s environmental systems for protection of human and ecosystem health

可持续技术创新与产业化枢纽
Develop scalable technology and engineering solutions for sustainability

Students
学生培养

培养目标
Educational Goal

培养具有可持续发展理念与多学科交叉背景的环境研究、工程技术与管理人才

Train undergraduate and graduate students to become game-changers with ability to bridge basic science and engineering for sustainable development

学科发展顾问委员会
Disciplinary Development Advisory Board

江桂斌
中国科学院院士
中国科学院生态环境研究中心
JIANG, Guibin
Academician of the Chinese Academy of Sciences
Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

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中国科学院生态环境研究中心
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清华大学
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Academician of the Chinese Academy of Engineering
Tsinghua University

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中国工程院院士
浙江大学
ZHU, Lizhong
Academician of the Chinese Academy of Engineering
Zhejiang University

朱彤
中国科学院院士
北京大学
ZHU, Tong
Academician of the Chinese Academy of Sciences
Peking University

唐洪武
中国工程院院士
华南理工大学
TANG, Hongwu
Academician of the Chinese Academy of Engineering
South China University of Technology

俞汉青
中国工程院院士
中国科学技术大学
YU, Hanqing
Academician of the Chinese Academy of Engineering
University of Sciences and Technology of China

2025年度国际影响力 2025 Global Impact

2021年5月，南科大环境生态学科首次进入ESI全球前1%，2025年11月已进入前1.49‰，实现了高质量快速发展。2024年泰晤士高等教育中国学科评级中，我校环境科学与工程学科获得A+评级；2025“软科世界一流学科排名”，我校水资源工程排名22，环境科学与工程排名50，地球科学排名75，大气科学排名101-150。

In May 2021, the environmental ecology discipline of Southern University of Science and Technology (SUSTech) entered the top 1% of ESI global rankings for the first time. By November 2025, it had advanced to the top 1.49‰, achieving high-quality rapid development. In the 2024 Times Higher Education China Subject Rankings, our Environmental Science and Engineering discipline received an A+ rating. In the 2025 "Shanghai Ranking's Global Ranking of Academic Subjects," the Water Resources Engineering ranked 22th, Environmental Science and Engineering ranked 50th, Earth Science ranked 75th, and Atmospheric Science ranked between 101st-150th.

本科生培养 Undergraduate Programs

学院目前拥有教育部正式批准的两个本科专业：“环境科学与工程”和“水文与水资源工程”，其中环境科学与工程本科专业为广东省优势重点学科，并且入选广东省一流本科专业建设“双万”计划。本科专业教育强调学生个性化兴趣培养，鼓励学生选取数学、物理、化学、生物、地球科学等基础学科之一,构建专业知识基础体系，同时强调动手能力和批判性思维的训练。

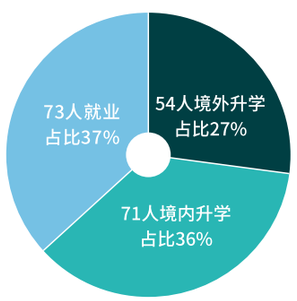
截至2025年，“环境科学与工程”专业已培养毕业生198人，升学就业率100%。其中，54人境外升学（占比27%）、71人境内升学（占比36%）、73人就业（占比37%）；“水文与水资源工程”专业已培养毕业生59人，升学就业率100%，其中25人境外升学（占比42%）、26人境内升学（占比44%）、8人就业（占比14%）。

共有68位毕业生升学至QS排名前50高校，包括：斯坦福大学、苏黎世联邦理工大学、新加坡国立大学等。共有18位毕业生就职于世界500强和政府相关单位，包括：比亚迪、深圳市水务局等。

The school currently offers two undergraduate programs officially approved by the Ministry of Education: Environmental Science and Engineering and Hydrology and Water Resources Engineering. Notably, the former is recognized as a Superior Key Discipline of Guangdong Province and has been selected for the "Double Ten Thousand Plan", a national initiative for the development of first-class undergraduate programs. The undergraduate curriculum emphasizes individualized interest-based cultivation, encouraging students to build a robust foundational knowledge base by selecting a core discipline from Mathematics, Physics, Chemistry, Biology, or Geosciences. Simultaneously, rigorous training in hands-on capabilities and critical thinking is highly prioritized.

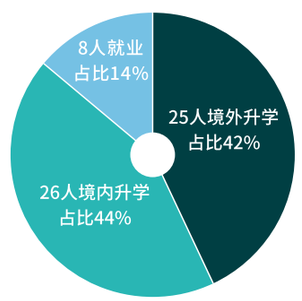
As of 2025, the Environmental Science and Engineering program has graduated 198 students, achieving a 100% further education and employment rate. Among them, 27% (54 students) pursued overseas studies, 36% (71 students) continued domestic education, and 37% (73 students) entered the workforce. The Hydrology and Water Resources Engineering program has graduated 59 students, also maintaining a 100% success rate in further education and employment, with 42% (25 students) going abroad, 44% (26 students) staying domestically, and 14% (8 students) securing employment.

To date, 68 graduates have been admitted to QS Top 50 universities, including Stanford University, ETH Zurich, and the National University of Singapore. Additionally, 18 graduates are employed by Fortune Global 500 companies and government agencies, such as BYD and the Shenzhen Water Affairs Bureau.



“环境科学与工程专业”毕业生情况

Status of Environmental Science & Engineering Alumni



“水文与水资源工程专业”毕业生情况

Status of Hydrology & Water Resources Engineering Alumni

本科生国际课程 International Course for Undergraduate Students

自2016年夏季学期首次推出以来，学院特色课程《暑期海外水与环境管理认知实践》课程已举办6次。与传统课程不同，该课程的独特之处在于安排学生在教师的指导下，前往美国、日本等发达国家实地学习水资源与环境管理方面的理论与实践，同时通过了解国外文化教育环境，为学生打开国际视野，为将来的学业之路奠定良好基础。课程成效显著，所有选修该课程的学生均成功升学国内外顶尖学府。学生们对这门课程的评价极高，自课程开设以来，每次都有超过30名学生积极申请。

Since its inception in the summer of 2016, our signature course, Cognitive Practice of Overseas Water and Environmental Management, has been successfully held every year. Distinguishing itself from traditional curricula, the course offers a unique pedagogical approach by organizing faculty-led field studies in developed countries, such as the U. S. and Japan. This allows students to engage in the on-site exploration of both theoretical frameworks and practical applications in water resource and environmental management.

Beyond technical expertise, the program facilitates a profound understanding of international cultural and educational landscapes, broadening students' global horizons and establishing a robust foundation for their future academic pursuits. The impact of the course has been exemplary: 100% of the enrolled students have successfully secured admissions to elite universities globally. Given its high prestige and transformative nature, the course has consistently seen strong demand, with over 30 applications received for each iteration since its launch.

本科生部分科研成果 Selected Publications by Undergraduate Students

1. 赵雅楠在曾振中的指导下以第一作者的身份于2025年11月在*Nature Communications*发表题为“Increasing extreme winds challenge offshore wind energy resilience”的论文。
2. 辛文韬在叶斌的指导下以第一作者的身份于2025年11月在*Applied Energy*发表题为“Aggregator-driven optimization of electric vehicle charging stations in Shenzhen: Synergizing smart charging, renewable energy integration and energy storage”的论文。
3. 杨欣荣在曾振中的指导下以第一作者的身份于2024年2月在*Applied Energy*发表题为“Spatiotemporal variation of power law exponent on the use of wind energy”的论文。
4. 赵雅楠在曾振中的指导下以第一作者的身份于2023年4月在*Environmental Research Letters*发表题为“Global assessment of spatiotemporal changes of frequency of terrestrial wind speed”的论文。
5. 刘怡在曾振中的指导下以第一作者的身份于2022年9月在*Environmental Science: Atmospheres*发表题为“Stronger winds increase sand-dust storm risk in northern China”的论文。
6. 沈心悦在刘崇炫的指导下以第一作者的身份于2022年9月在*Journal of Hazardous Materials*发表题为“Mechanistic and modeling insights into the immobilization of Cd and organic carbon during abiotic transformation of ferrihydrite induced by Fe (II)”的论文。
7. 刘怡在曾振中的指导下以第一作者的身份于2022年11月在*Environmental Research Letters*发表题为“Increases in China’s wind energy production from the recovery of wind speed since 2012”的论文。
8. 黄筱雯在曾振中的指导下以第一作者的身份于2022年3月在*Environmental Research Letters*发表题为“Influence of urbanization on hourly extreme precipitation over China”的论文。
9. 蔡湾在王俊坚的指导下以第一作者的身份于2020年8月在*Water Research*发表题为“Long-term biochar addition alters the characteristics but not the chlorine reactivity of soil-derived dissolved organic matter”的论文。
10. 李容珍在郑春苗、裘文慧的指导下以第一作者的身份于2020年4月在*Environmental Science and Ecotechnology*发表题为“Transcriptomic analysis of bisphenol AF on early growth and development of zebrafish (Danio rerio) larvae”的论文。
11. 刘静宇在郑焰的指导下以第一作者的身份于2019年8月在*Science of the Total Environment*发表题为“Early exposure to environmental levels of sulfamethoxazole triggers immune and inflammatory response of healthy zebrafish larvae”的论文。
12. 陈楚珂在张幼宽的指导下以第一作者的身份于2019年8月在*Stochastic Environmental Research and Risk Assessment*发表题为“Effects of agricultural activities on the temporal variations of streamflow: trends and long memory”的论文。
13. 贺磊宇在刘崇炫的指导下以第一作者的身份于2019年5月在*Environmental Science and Technology*发表题为“Elucidating the Role of Sulfide on the Stability of Ferrihydrite Colloids under Anoxic Conditons”的论文。
14. 陈璇在Sujong Jeong的指导下以第一作者的身份于2018年1月在*Environmental Research Letters*发表题为“Shifting the urban heat island clock in a megacity: a case study of Hong Kong”的论文。

本科生部分荣誉
Selected Honors for Undergraduate Students

奖项类别	年级	姓名	导师
国家奖学金	2022级	曾熙	郑焰
优秀学生标兵	2022级	曾熙	郑焰
十佳毕业生	2015级	田逸群	郑春苗
十佳毕业生	2015级	姚瑶	张幼宽
十佳毕业生	2014级	黄荣芃	刘俊国
十佳毕业生	2014级	宋立博	胡清

研究生培养 Graduate Programs

学院现有环境科学与工程一级学科博士学位、硕士学位授权点，资源与环境专业硕士学位授权点。

2025年在读研究生共324人。研究生以第一作者共发表SCI论文370余篇，其中研究生以第一作者或共同第一作者发表*Nature*、*Science*正刊及子刊论文21篇，授权发明专利30余项、软件著作权14项。多名同学获得唐孝炎奖学金、钱易奖学金、高廷耀奖学金、李小文遥感科学青年奖、国家奖学金、比亚迪奖学金等荣誉，并获得2项国家自然科学基金青年学生基础研究项目（博士研究生）资助。

The school currently offers Doctoral and Master's degree programs in the first-level discipline of Environmental Science and Engineering, alongside a Professional Master's degree program in Resources and Environment.

As of 2025, the school has an enrollment of 324 postgraduate students. The student body has demonstrated exceptional research productivity, having published over 370 SCI-indexed papers as first authors. Notably, this includes 21 papers published in *Nature, Science*, and their sister journals as first or co-first authors. Furthermore, students have been granted over 30 invention patents and 14 software copyrights.

A significant number of students have been honored with prestigious awards, including the Tang Xiaoyan Scholarship, Qian Yi Scholarship, Gao Tingyao Scholarship, Li Xiaowen Remote Sensing Science Youth Award, National Scholarship, and BYD Scholarship. In addition, two students were awarded by the National Natural Science Foundation of China (NSFC) for Undergraduate/Graduate Basic Research Programs (Doctoral Students)

2025年度研究生获奖情况
2025 Graduate Student Award Recipients

奖项类别	年级	姓名	培养层次	导师
北京大学唐孝炎奖学金	2021级	谷晓松	博士研究生	陈洪
钱易奖学金	2023级	覃颖祚	博士研究生	曾振中
国家奖学金	2022级	郑炼明	博士研究生	沈惠中
	2023级	覃颖祚	博士研究生	曾振中
	2023级	谢丰	博士研究生	张作泰
	2022级	詹铮铄	博士研究生	雷洋
	2023级	韩宇潇	硕士研究生	沈惠中
	2023级	孟媛媛	硕士研究生	姜丽光
	2023级	陆俊洋	硕士研究生	张作泰
	2023级	余哲	硕士研究生	叶斌
比亚迪奖学金	2023级	覃颖祚	博士研究生	曾振中
	2023级	刘骐鸣	硕士研究生	沈惠中
	2023级	孟媛媛	硕士研究生	姜丽光
十佳毕业生	2022级	陈禹凡	硕士研究生	刘俊国

截至2025年，学院已有337名研究生完成了学业，就业率96%。

大部分研究生继续从事与专业相关的工作，就业单位包括：同济大学、西北工业大学、哈尔滨工业大学、国防科技大学、宁波东方理工大学、南京师范大学、东北农业大学等高校，德国马克斯·普朗克生物地球化学研究所、生态环境部华南环境科学研究所、生态环境部卫星环境应用中心、生态环境部珠江南海局监测与科研中心、中国市政工程中南设计研究总院有限公司、核工业北京地质研究院、中国科学院南京地理与湖泊研究所、国科大杭州高等研究院等科研院所、中国核电工程有限公司等。

部分研究生毕业后加盟比亚迪、华为、新凯来、中石化、金发科技、华鹏基金等国内知名企业，或者就职于深圳南山区沙河街道办、深圳福田区南园街道办、广州市花都区炭步镇人民政府、陕西省共青团镇坪县委员会、宜春市丰城生态环境局等党政机关及事业单位。

As of 2025, the school has seen 337 postgraduate students successfully complete their studies, achieving an overall employment rate of 96%.

The majority of graduates have continued their professional careers in fields closely aligned with their specializations. Many have secured positions in prestigious universities, such as Tongji University, Northwestern Polytechnical University, Harbin Institute of Technology, National University of Defense Technology, Eastern Institute of Technology (Ningbo), Nanjing Normal University, and Northeast Agricultural University. Others have joined renowned research institutes and public sectors, including the Max Planck Institute for Biogeochemistry (Germany), the South China Institute of Environmental Sciences (MEE), the Satellite Environment Center (MEE), the Monitoring and Scientific Research Center of the Pearl River Basin and South China Sea (MEE), Central Southern China Municipal Engineering Design and Research Institute Co., Ltd., the Beijing Research Institute of Uranium Geology, the Nanjing Institute of Geography and Limnology (CAS), and the HIAS of the University of Chinese Academy of Sciences, as well as state-owned enterprises like China Nuclear Power Engineering Co., Ltd.

A significant cohort of graduates has also transitioned into leading domestic corporations, such as BYD, Huawei, Sienery, Sinopec, Kingfa Science & Technology, and Huapeng Fund. Furthermore, some have entered public service and government agencies, taking up roles in the Shahe Subdistrict Office (Nanshan, Shenzhen), Nanyuan Subdistrict Office (Futian, Shenzhen), the People's Government of Tanbu Town (Huadu, Guangzhou), the Zhenping County Committee of the Communist Youth League (Shaanxi), and the Fengcheng Bureau of Ecology and Environment (Yichun).

研究生部分科研成果Selected Publications by Graduate Students

1. 博士生杨格在裘文慧和郑春苗的指导下，以共同第一作者的身份于2025年12月在*Science*发表题为“Risks of Per- and Polyfluoroalkyl Substance Exposure Through Marine Fish Consumption”的论文。
2. 博士生覃颖祚在曾振中的指导下，以共同第一作者的身份于2025年3月在*Nature*发表题为“Impact of Amazonian deforestation on precipitation reverses between seasons”的论文。
3. 博士生李钰敏在傅宗玫的指导下，以共同第一作者的身份于2025年2月在*Science*发表题为 “Nitrogen dominates global atmospheric organic aerosol absorption” 的论文。
4. 博士生王泓在刘俊国的指导下，以共同第一作者的身份于2024年3月在*Science*发表题为“Anthropogenic climate change has influenced global river flow seasonality”的论文。
5. 博士生戴艳会在冯炼的指导下，以共同第一作者的身份于2023年3月在*Nature*发表题为“Coastal phytoplankton blooms expand and intensify in the 21st century”的封面论文。
6. 硕士生金宇斌在曾振中的指导下，以共同第一作者的身份于2023年3月在*Nature Sustainability* 发表题为 “Energy production and water savings from floating solar photovoltaics on global reservoirs”的论文。
7. 硕士生罗秋琪在冯炼的指导下，以共同第一作者的身份于2022年11月在*Nature Communications*发表题为“Mapping global lake dynamics reveals the emerging roles of small lakes”的论文。

Faculty and Staff

师资力量

学院现有全职教师55人、兼职教师2人，其中讲席教授6人、教授/研究教授8人、副教授/研究副教授21人、助理教授/研究助理教授20人。教师队伍中有中国科学院院士1人、美国国家工程院院士1人、美国地球物理联合会会士2人、教育部特聘教授4人、青年科学基金项目（A类）获得者6人、青年科学基金项目（B类）获得者5人、教育部特聘青年学者4人、国务院特聘津贴专家3人、其他国家级人才13人。

As of the 2025-2026 academic year, our faculty consists of 55 full-time and 2 part-time members. The academic hierarchy includes 6 Chair Professors, 8 Professors/Research Professors, 21 Associate Professors/Research Associate Professors, and 20 Assistant Professors/Research Assistant Professors. The faculty is distinguished by numerous high-level honors. The team includes one Academician of the Chinese Academy of Sciences, one Member of the U.S. National Academy of Engineering, and two Fellows of the American Geophysical Union (AGU). Furthermore, the school is home to 4 Ministry of Education Chair Professors, 3 Recipients of the State Council Expert Special Allowance, 6 National Natural Science Foundation of China (NSFC) Outstanding Scientist Award Recipients, and 5 NSFC Excellent Young Scientist Award Recipients, 4 Recipients of the Ministry of Education Junior Faculty Award, and 13 Recipients of National Awards Programs in Recognition of Individual Scholarship.

院长 HEAD OF THE SCHOOL

郑焰 ZHENG, Yan

讲席教授，美国哥伦比亚大学博士、美国地球物理联合会会士、美国地质学会会士、国自然陆海过渡带环境与生态科学创新群体项目负责人。曾任北京大学讲席教授、纽约市立大学终身教授、美国哥伦比亚大学高级研究员、联合国儿童基金会驻孟加拉国水及环境卫生项目专员。从事地表－地下－近海水环境与健康研究、含水层人工调控技术研发等。在Science、Nature及子刊、PNAS等期刊上发表论文160多篇，谷歌学术H-指数67，并主持撰写联合国政策报告四本，专著两部。成果应用于孟加拉国、中国、美国，解决了数百万高砷暴露人口的饮水安全问题，获得《纽约时报》科学版专文报道。现任国际水文地质学家协会地下水人工回补委员会共同主席、Environmental Earth Sciences主编、Science Advances 与Water Resources Research副主编、中国矿物岩石地球化学学会理事等。

Chair Professor. Ph.D., Columbia University. Fellow of the American Geophysical Union and the Geological Society of America. Professor Zheng was a Chair Professor at Peking University, a tenured Full Professor at City University of New York, an adjunct senior research scientist at Columbia University, and a water and sanitation specialist with UNICEF Bangladesh. Professor Zheng is known for her multi-disciplinary research that led to the reduction of exposure to drinking water arsenic among millions of private well households in Bangladesh, China and USA through changes in policy and practice. She has published >160 peer reviewed journal articles (Google Scholar citation >15,000, h-index 67, verified Nov 1, 2025) in areas including hydrogeochemistry, biogeochemistry, environmental health and policy. Currently, she serves as the Editor-in-Chief for Environmental Earth Sciences, an Associate Editor for Science Advances and Water Resources Research, and as a Co-Chair for the International Association of Hydrogeologists – Managing Aquifer Recharge Commission.

教研系列 TENURED OR TENURE-TRACK FACULTY

陶澍 TAO, Shu

讲席教授(双聘)，1950年生，江苏省无锡市人，1977年毕业于北京大学地质地理系，1981年、1984年获美国堪萨斯大学硕士、博士学位。2009年当选为中国科学院地学部院士。1984年至2020年在北京大学工作。现为南方科技大学环境科学与工程学院讲席教授。曾主持国家自然杰出青年基金(1995)、创新研究群体(2000)和包括面上、重点、重大和重大国际合作在内的多项自然科学基金及科技部和生态环境部研究项目。目前兼任国家环境生态咨询委员会委员、国家环境与健康专家咨询委员会委员、Environmental Science & Technology副主编及多个国内外刊物主编、副主编和编委等。主要从事微量有毒污染物排放、行为、归趋和效应等区域尺度环境过程的研究。目前重点包括全球污染物排放清单、污染物迁移和暴露模拟以及农村生活源污染物生成和对室内外空气质量及健康影响等。在国际学术期刊发表第一或通讯作者论文200余篇。Web of Science引用超过两万次，H指数80。

Chair Professor. Ph. D., University of Kansas. Professor Tao is a member of the Chinese Academy of Sciences, a member of the National Steering Committee on Eco-Environmental Protection, and a member of the National Steering Committee on Environmental Health.He also serves as Associate Editor of Environmental Science & Technology. His current research interests include global emission inventories of various air pollutants atmospheric transport and population exposure modeling, household air quality, and policy evaluation. He has more than 200 papers published in peer-reviewed international journals, including four in PNAS, one in Nature Energy, and many in Environmental Science & Technology with total citation around 22,000 and H-index (Web of Science) of 80.

徐政和 XU, Zhenghe

讲席教授(双聘)，南方科技大学工学院创院院长。分别于2021年当选中国工程院外籍院士，2015年当选加拿大皇家科学院院士、2008年当选加拿大工程院院士。他目前担任全球工学院院长协会(GEDC)理事会常务理事，曾担任国际矿物加工学会理事会(IMPC)理事(2016-2020)、加拿大矿冶与材料学会主席(2016-2017)、加拿大矿物工程首席教授(2006-2017)、加拿大国家科学与工程研究委员会(NSERC)油砂工程首席教授(2002-2017)、加拿大NSERC/EPCOR/AERI先进煤洁净及燃烧技术首席教授(2002-2008)。

Chair Professor. Dr. Zhenghe Xu is Founding Dean of College of Engineering. His research is based on interfacial science with applications to energy materials and environments. He authored or coauthored 515 SCI journal publications with 21,000+ WoS citations and an h-index of 70. Among many prestigious recognitions and awards, he is an elected fellow of Canadian Academy of Engineering (2008) and Royal Society of Canada (2015), and foreign member of Chinese Academy of Engineering (2021).

张东晓 ZHANG, Dongxiao

讲席教授，美国亚利桑那大学博士、美国国家工程院院士。国家杰出青年科学基金获得者，美国地质学会会士(GSA Fellow)、国际石油工程师协会SPE最高荣誉会员。曾任美国南加州大学Marshall终身讲席教授、北京大学工学院院长、研究生院常务副院长，曾兼任中国研究生院院长联席会秘书长、中国学位与研究生教育学会文理科工作委员会主任和中国学位与研究生教育学会评估委员会副主任。研究领域为智慧能源与碳中和领域，其机器学习、随机理论建模、数值计算、历史拟合方面的研究成果已被国际同行广泛采用。发表学术论文250余篇，专著《渗流随机理论》为领域内代表性著作。曾任八种国际学术期刊副主编。主持或负责国家自然基金项目、国家重点研发计划项目、美国能源部等各类重大科研项目40余项。

Chair Professor. Ph.D.,University of Arizona. He is a Member of the U.S.National Academy of Engineering, He is also an Honorary Member of the Society of Petroleum Engineers, and a Fellow of the Geological Society of America. And recipient of Distinguished Young Scholars by National Natural Science Foundation of China. He has served as the Gordon S. Marshall Chair Professor at the University of Southern California, the dean of the College of Engineering of Peking University, and the executive vice dean of the Graduate School of Peking University. He has also served concurrently as the secretary-general of the Association of Chinese Graduate Schools, director of the Liberal Arts and Science Committee, and the deputy director of the Evaluation Council of the Chinese Society of Academic Degrees and Graduate Education. Professor Zhang's research areas include intelligent energy and carbon neutrality, and his research achievements in machine learning, stochastic modeling, numerical simulation.

方红卫 FANG，Hongwei

讲席教授（双聘），曾任清华大学学科办常务副主任、发展规划处处长、科研院院长。2022年1月至2022年7月任南方科技大学教务长、讲席教授，2022年7月至今任南方科技大学党委常委、副校长兼教务长、讲席教授。主要从事水沙模拟与生态河流动力学研究。担任国际泥沙学会会刊IJSR主编、美国土木工程师协会会刊JHE副主编。曾获国家杰出青年基金、教育部特聘教授资助。河流动力学及江河工程泥沙调控新机制获得国家自然科学二等奖；泥沙、核素、温排水耦合输移关键技术及在沿海核电工程中应用获得国家科技进步二等奖。

Chair Professor. Fang held positions as Executive Associate Director of Office of Academic Planning, Director of Office of Development and Planning and Director of Research and Development Affairs Office, Tsinghua University. He has been the Provost of Southern University of Science and Technology since January, 2022. Professor Fang mainly engages in research of numerical simulation of flow and sediment transport, eco-fluvial dynamics. He is the chief editor for the official journal of World Association for Sedimentation and Erosion Research, International Journal of Sediment Research (IJSR) and an associate editor for Journal of Hydraulic Engineering (JHE), the publication of American Society of Civil Engineers. He was recipient of the National Science Fund for Distinguished Young Scholars and was funded by the Yangtze River Scholar Program for Distinguished Professors.Academic Achievements: The new mechanism of river dynamics and sediment transport in river engineering won the second prize of the National Natural Science Award; the key technology of coupled transport of sediment, nuclides and thermal discharge and its application in coastal nuclear power projects received the second prize of the National Scientific and Technological Progress Award.

郑春苗 ZHENG，Chunmiao

创院院长 Founding Head of the School (2015-2020)

讲席教授，美国威斯康星（麦迪逊）大学博士、美国地球物理联合会会士（AGU Fellow）和美国地质学会会士（GSA Fellow）。曾任北京大学讲席教授及水科学研究中心主任、美国阿拉巴马大学Lindahl终身讲席教授、国际水文科学协会（IAHS）国际地下水委员会主席。研究领域包括地下水污染机理与修复技术、流域尺度生态－水文过程、全球变化与新型污染物对水资源可持续利用的影响等。开发了地下水污染模拟标准软件MT3D/MT3DMS，在100多个国家得到广泛使用。发表了论文460多篇及专著6部，谷歌学术被引用总数超过2.9万次。获得的荣誉包括：1998年美国地下水协会John Hem杰出贡献奖、2009年美国地质学会Birdsall-Dreiss杰出讲席奖、2013年美国地质学会O. E. Meinzer Award（国际水文地质界最高荣誉）、2013年美国地下水协会M. King Hubbert Award（该协会最高科学奖）、2014年美国威斯康星（麦迪逊）大学地学系杰出校友奖、2024年第十一届苏丹王子阿卜杜勒阿齐兹国际水奖（PSIPW）。

Chair Professor. Ph.D., University of Wisconsin-Madison, Fellow of the American Geophysical Union (AGU) and the Geological Society of America (GSA). Prior to his current appointment, he was Chair Professor and Director of the Institute of Water Sciences at Peking University, and the George Lindahl III Endowed Professor at the University of Alabama. His research interests include groundwater contaminant transport and remediation, basin-scale eco-hydrologic processes, and impacts of global change and emerging contaminants on water sustainability. He is the developer of the MT3D/MT3DMS series of contaminant transport codes used in over 100 countries, and author or co-author of over 460 SCI papers and 6 books with over 29000 citations on Google Scholar. He was awarded the Birdsall-Dreiss Distinguished Lectureship (2009) and the O. E. Meinzer Award (2013) by the Geological Society of America, and the John Hem Award (1998) and the M. King Hubbert Award (2013) by the National Ground Water Association (USA). He was a recipient of the Distinguished Alumni Award (2014) from the Department of Geoscience, University of Wisconsin-Madison. He was also a recipient of the 2024 Prince Sultan Bin Abdulaziz International Prize for Water (PSIPW).

杨新 YANG，Xin

第二任院长 Head of the School (2020-2025)

讲席教授，香港科技大学博士，教育部特聘教授，国务院特殊津贴专家，南方科技大学工学院教学副院长。主要研究领域包括：大气气溶胶物理化学特性及环境气候效应、城市区域空气质量、新型环境检测技术研发等。研究工作获国家自然科学基金重点项目、基金委重大仪器项目（自由申请）、科技部仪器重大专项课题、广东省重点研发计划项目、深圳市创新创业团队项目等资助。在国际学术期刊发表论文230余篇。担任《Atmospheric Environment》副主编，《科技导报》、《环境化学》、《大气与环境光学学报》等期刊编委，广东省“大湾区滨海大气环境与气候背景”野外科学观测研究站站长、深圳市“城市环境健康风险精准测量与预警技术”重点实验室主任等学术职务。

Chair professor. Xin Yang is the Vice Dean of the College of Engineering at the Southern University of Science and Technology. He received his PhD degree from the Hong Kong University of Science and Technology. Prof. Yang’s research interests include physical and chemical properties of atmospheric aerosol and their impacts on human health and global climate, urban air quality, and instrument development on environmental analysis. He is author or co-author of over 230 peer-reviewed journal papers and PI of national-level research projects funded by the National Natural Science Foundation of China, Ministry of Science and Technology of China, and Ministry of Education of China. He was awarded the Ministry of Education Chair Professor and the State Council Expert for Special Allowance.

刘崇炫 LIU，Chongxuan

讲席教授，美国约翰霍普金斯大学博士，美国地质学学会（GSA）会士（Fellow）。长期从事污染物在地下水和土壤系统中的迁移、转化和降解机制研究和修复技术开发。在发展地球关键带的水文－地球化学动力学耦合理论和建立多尺度动力学模型、在发展土壤－地下水系统中微生物动力学理论和建立生物地球化学动力学与微生物群落演化的耦合模型，在开发土壤－地下水污染的自然修复和强化自然修复技术，以及开发捕获去除污水中重金属和放射性核素的纳米材料等方面取得了多项成果。现发表SCI论文180多篇，其中Nature-index期刊文章80多篇，H因子51。

Chair Professor. Ph.D., Johns Hopkins University, Fellow of Geological Society of America (GSA). His research focuses on the multi-scale kinetics of the transformation, degradation and transport of contaminants in groundwater and soil systems; the coupled evolution of microbial community and biogeochemical processes; and the technologies for remediating contaminants in soil and groundwater systems, and the synthesis of engineered materials for extracting heavy metals from wastewater. He is the PI or Co-PI for many projects, and authored and co-authored over 180 peer-reviewed articles with an H-factor of 51.

李海龙 LI，Hailong

讲席教授，香港大学水文地质学博士、湖北省楚天学者、国家杰出青年科学基金、国务院自然科学教育类突出贡献政府特殊津贴获得者。主要从事海底地下水排泄和海岸带地下多组分（如盐分、营养盐、示踪剂等）多相流（如水气两相流）及其生态环境效应方面的研究。发表论文200余篇，其中在Nature Geoscience、GRL、JGR、WRR、GCA 等水文水资源水环境领域主流期刊发表SCI论文160多篇，发明专利5项，软件著作权3项。主持包括基金委重点项目、科技部973项目一级课题等12项科研项目。现任Advances in Water Resources、Water Science and Engineering、《盐湖研究》编委。入选Elsevier2020、2022、2023、2024中国高被引学者。培养博士后、博士、硕士100多名。

Chair Professor. Ph.D. of Hydrogeology from The University of Hong Kong. Professor Li received funding as a Chutian Scholar of Hubei Province and from the Outstanding Young Scientist Fund of NSFC. His research interests focus on submarine groundwater discharge and subsurface multi-component (such as nutrients, tracers and salt), multi-phase flows (such as air and groundwater) and their ecological environmental effects. He has published over 200 research articles, including over 160 SCI articles in leading international journals such as Nature Geoscience, GRL, JGR , WRR and GCA in the field of hydrology, water resources and the environment. He has obtained funding for over 12 research projects including the NSFC Key Program and the 973 Program. Professor Li serves as Associate Editors for Advances in Water Resources, Water Science and Engineering, and Journal of Salt Lake Research.

胡清 HU，Qing

教授，英国帝国理工大学环境化学、环境污染和水文学专业博士。国务院政府特殊津贴专家，深圳市高层次专业人才（深圳市国家级领军人才）。荣获2023年国家技术发明奖一等奖，2017年国家科学技术进步二等奖，2023年环境保护科学技术奖一等奖，2022年北京市科学技术进步奖一等奖等多项国家和省部级科研优秀成果奖项。先后担任生态环境部土壤生态环境保护专家咨询委员会委员，住建部科学技术委员会科技协同创新专业委员会委员，科技部中长期战略规划特聘专家，IWA世界水资源大会组委会专家组成员/评委，新加坡李光耀水奖评委。在大数据与生态环境、碳中和碳减排、污染场地绿色可持续修复与管理、生态环境发展战略与政策标准研究、环境健康及循环技术等多个专业领域积累了深厚的理论知识和丰富的国内外实践经验。牵头负责完成二十余项国家及省部级科研课题，为国家环境规划和科技发展战略提供关键支持，获得包括生态环境部、科技部在内的多个部门的高度认可。

Professor. Ph.D., Imperial College London, UK. State Council Expert for Special Allowance. She has more than 30 years researches and working experiences in ecological and environmental protection areas. She received the first prize of the State Technological Invention Award (2023); the China top-tier Awards of National Science and Technology Progress Award (2017); the Prize of Environmental Protection Science and Technology Award of Ministry of Ecology and Environment (2023); IBM Faculty Award (2016). Professor Hu's career has spanned academia, industry and social sector. Through decades of dedication to academia and the community, Professor Hu has great recognition of her professional portfolio and extensive network within academia, NGOs, UN systems and the private sectors. She was a member of the Stockholm Water Prize Nominating Technical Committee/ Lee Kuan Yew Water Prize Nominating Committee/ IWA World Water Congress & Exhibition Programme Committee. She has been working with World Bank and Asian Development Bank since 1999.

张作泰 ZHANG，Zuotai

教授，瑞典皇家工学院博士、国家杰出青年基金获得者、国家优秀青年基金获得者。现任深圳市城市固体废弃物资源化技术与管理重点实验室主任、广东省土壤与地下水修复重点实验室副主任，在固废高效清洁利用领域取得一定成绩。近五年主持包括自然科学基金委优秀青年基金、国家重点研发计划、深圳市学科布局等10余项国家、省部级科研项目。近五年在Appl. Cat. B: Environ.、Appl. Energy、ACS Sustain. Chem. & Eng.、Waste. Manag.、J. Hazard. Mater.等国际知名期刊发表SCI文章80余篇；申请国家发明专利20余项，有多项专利实现技术转让。担任Journal of Cleaner Production 副主编、《中国科学：技术科学》青年编委等。担任中国硅酸盐学会固废分会副理事长等职务。获得广东省环境协会二等奖、中国循环经济协会技术一等奖、北京市科技进步二等奖。

Professor. Ph.D., Royal Institute of Technology, Sweden. He is the Director of Key Laboratory of Municipal Solid Waste Recycling and Management of Shenzhen City. Dr. Zhang' s research interests include the efficient and clean utilization of solid waste and conducted thorough researches on the integrated utilization of waste heat/resource of metallurgical slag, the recycling valuable elements of metallurgical slag, the transformation and utilization of energy solid waste, and the transformation and migration mechanism of harmful elements based on the such key scientific issues in the process of the efficient cleaning utilization of solid waste. He has published more than 80 SCI papers in leading journals, including Appl. Cat. B: Environ., Appl Energy., ACS Sustain. Chem. & Eng., Waste. Manag., J. Hazard. Mater., and applied fo 30 patents. Dr. Zhang also serves as Associate Editor of Journal of Cleaner Production, Vice-Chair of Solid Waste Subcommittee of Chinese Ceramic Society of China.

郑一 ZHENG，Yi

教授，北京大学本科、硕士，美国加州大学圣巴巴拉分校博士，国家杰出青年科学基金、国家优秀青年科学基金获得者，国家自然科学基金“创新研究群体”核心成员。从事水资源与水环境、环境大数据与人工智能等研究。在Nature、Nature Geoscience、Nature Sustainability、Nature Reviews Earth & Environment、Environmental Science & Technology、 Water Resources Research、Geophysical Research Letters 等期刊发表 SCI 论文120多篇，出版“十三五”国家重点出版物出版规划著作1部，获软件著作权12项，申请国家发明专利6项（已授权4项），入选全球前2%顶尖科学家榜单。兼任国家环境保护流域地表水-地下水污染综合防控重点实验室副主任、国际水资源领域顶尖期刊Water Resources Research副主编、全国中文核心期刊《安全与环境工程》编委等职。创建深圳市环境物联网技术与应用工程实验室并任实验室主任。获中国自然资源学会优秀科技奖、广东省环境保护科学技术奖一等奖（排名第一）等科研奖励。

Professor. Ph.D., University of California, Santa Barbara. Recipient of NSFC Distinguished Young Scholars Award, Excellent Young Scholars Award. His main research areas include ecohydrological modeling, water resources management and environmental big data analysis. He serves as an associate editor of Water Resources Research (top journal in this field). He is an Associate Director of State Environmental Protection Key Laboratory integrated Surface Water-Groundwater Pollution Control, a Vice Chair of the Young Scientists Committee in china Society of Natural Resources, and the director of Shenzhen Municipal Engineering Lab of Environmental IoT Technologies. He has published over 120 SCI papers, mostly in top journals such as Nature, Nature Food, Nature Geoscience, Nature Sustainability, Nature Reviews Earth & Environment, Environmental Science & Technology, Water Resources Research, Geophysical Research Letters. He received Outstanding Science and Technology Award from China Society of Natural Resources, and First Prize of Guangdong Environmental Protection Science and Technology Award form Guangdong society of Environmental Society.

傅宗玫 FU，Tzung-May

教授，美国哈佛大学地球与行星科学博士。曾任北京大学物理学院大气与海洋科学系长聘副教授、研究员，及香港理工大学土木与结构工程系助理教授。主要研究领域包括空气污染、全球及区域大气化学、化学－气候相互作用等。重点研究大气有机物化学、对流层臭氧、气候与空气质量相互作用、云－气溶胶相互作用、大气组分遥感及反演、污染物长程传输、海－气交换等。发表SCI论文80余篇。曾获国家自然科学基金委杰出青年基金、优秀青年基金、中国气象学会涂长望青年气象科技奖二等奖、教育部特聘青年学者、教育部高校自然科学奖二等奖等。

Professor. Ph.D., Harvard University. Prior to her current appointment, Fu was Associate Professor and "Bairen" Professor at Peking University, and Assistant Professor at the Hong Kong Polytechnic University. Her research interests are in air pollution, global and regional atmospheric chemistry, and chemistry-climate intreactions. Recent topics include chemistry of atmospheric organics, tropospheric ozone, climate-air quality interactions, aerosol-cloud interactions, remote sensing and inverse modeling of atmospheric constituents, long-range transport, and air-sea exchange of organics. Fu has authored more than 80 peer-reviewed papers. She has won the National Natural Science Foundation of China Distinguished Young Scientist Fellowship, the Outstanding Young Scientist Fellowship, the Tu Chang Wang Award, the Distinguished Junior Faculty of the Ministry of Education, and the Second Prize of Natural Science Award of Ministry of Education.

曾振中 ZENG，Zhenzhong

副院长 Deputy Head of the School

教授，北京大学博士，在普林斯顿大学从事博士后研究。从陆气相互作用、能源转型中的关键地学问题两个方向在地球系统与全球变化领域开展研究，代表性研究成果包括：揭示全球风速变化新趋势及其对风能产业的影响；建立纳入严格环境约束的全球水电开发评估框架并阐明全球水电开发潜力；首次定量评估全球水库漂浮式光伏发电潜力与节水效果；发现湿地温室气体非线性交换模式并评估全球湿地减排潜力；利用高分辨率卫星遥感发现热带植被变化的新动态；利用地球系统模型揭示植被动态对全球气候系统的反馈机制等。在Nature、Science、Science Bulletin、Nature Climate Change等SCI收录杂志上发表论文180余篇，其中第一作者和通讯作者论文80余篇，总被引2万余次，并为Nature、Science等60多个国际重要刊物审稿。

Professor. Ph.D., Peking University. Postdoctoral Research Associate at Princeton University. A peer reviewer of Nature Sustainability and other 30 SCI academic journals, as well as the IPCC sixth report invited peer review expert. He works at the area of Earth system processes and global environment change, with a focus on land atmosphere interactions and key geographical issues in energy transition. He published a more than 180 SCI papers, among which 80 papers he is the first or the corresponding author, in journals such as Science, Nature Climate Change, Nature Geoscience, etc. The papers were cited more than 20,000 times. Some of the research results have been used as supporting materials for the IPCC report and have been reported by the international scientific media many times.

唐圆圆 TANG，Yuanyuan

副院长 Deputy Head of the School

教授，香港大学博士，教育部特聘教授（青年），研究方向：固废污染防控及资源化、典型固废环境行为及环境影响等。主持及参与国自然面上项目、广东省杰青、科技部重点研发计划等研究课题近20项，发表SCI学术论文100余篇，H指数44（谷歌学术）。参编论著5部，授权发明专利10项，其中2项实现技术转化。担任Environ. Geochem. Hlth.副主编、Waste Manage. Res.和Sustainable Horizons编委，《环境卫生工程》青年编委，担任深圳市水污染治理攻坚决战青年先锋队队长，多个国际学术会议分会召集人、分会主席、专委会成员等。入选全球前2%顶尖科学家“年度科学影响力排行榜”，获广东省环境科学学会生态环境青年科技奖、深圳市优秀班主任、“香港工程师学会青年工程师/研究员优秀论文奖”、深圳市“海外高层次人才”、南方科技大学“年度青年教授”、“优秀青年科研奖”、“优秀教学奖”、“优秀书院导师”、“卓越服务奖”等荣誉。

Professor. PhD from The University of Hong Kong, Ministry of Education Distinguished Professor (Youth Program). Her research focuses on solid waste pollution control and resource utilization, environmental behavior of typical solid wastes, etc. She has led or participated in nearly 20 research projects, including NSFC, Guangdong Provincial Science Fund for Distinguished Young Scholars etc. She has published over 100 SCI academic papers with an H-index of 39 (Google Scholar). She has co-authored five books and holds 10 authorized invention patents, two of which have been commercially transferred. She serves as an associate editor for the SCI journal Environ. Geochem. Hlth., an editorial board member of Waste Manage. Res., and Sustainable Horizons. She has been recognized in the "World’ s Top 2% Scientists"annual ranking for scientific influence, and has received honors such as the Guangdong Provincial Society for Environmental Sciences Youth Science and Technology Award, Shenzhen Excellent Class Advisor, "Hong Kong Institution of Engineers Young Engineer/Researcher Award," the city's "Overseas High-Level Talent," the university's "Annual Young Professor," "Outstanding Young Research Award," "Excellent Teaching Award," "Outstanding College Mentor," and the "Excellence in Service Award."

匡星星 KUANG，Xingxing

副教授，香港大学博士、博士后，深圳市海外高层次人才（B类）。研究方向：饱和-非饱和流与水气二相流、溶质运移数值模拟、同位素水文地质学及地下水对气候变化的响应等。主持两项国家自然科学基金重大研究计划重点支持项目。发表论文97篇，其中第一或通讯作者SCI论文41篇，包括水资源领域顶级或重要学术期刊Science、Geophysical Research Letters、Geochimica et Cosmochimica Acta、Water Resources Research、Journal of Geophysical Research: Atmospheres、Journal of Hydrology等。现任Journal of Hydrology 副主编（Associate Editor）。长期担任水资源领域多个学术期刊的审稿人。2014年获得AXA研究基金博士后奖学金（全球30人）。

Associate Professor. Ph.D., The University of Hong Kong. His main research interests including saturated-unsaturated flow and air-water two-phase flow in porous media, solute transport numerical modeling, isotope hydrogeology, and response of groundwater to climate change. He was the PI of two Key Programs of NSFC. He has published 97 SCI papers (with 41 SCI papers being the first or corresponding author) in top journals of water resources, including Science, Geophysical Research Letters, Geochimica et Cosmochimica Acta, Water Resources Research, Journal of Geophysical Research: Atmospheres, and Journal of Hydrology. He is currently the Associate Editor of Journal of Hydrology. He was awarded the AXA Research Fund Post-Doctoral Fellowships in 2014 (globally 30 persons).

王俊坚 WANG, Junjian

副院长 Deputy Head of the School

副教授，美国克莱姆森大学博士，多伦多大学博士后。致力于研究植物－土壤－水体连续体中碳循环与环境质量变化。主持国自然重大项目课题、优秀青年项目、广东省杰出青年项目等，参与国自然创新研究群体项目。获中国环境科学学会青年科学家奖（金奖）、中国土壤学会优秀青年学者奖、Journal of Environmental Quality（JEQ）编辑卓越奖等荣誉。在Nature Plants、Nature Communications、Water Research、Environmental Science & Technology等期刊上发表论文150余篇，其中一作或通讯90余篇。现任JEQ副主编，曾担任过我国国家自然科学基金、美国自然科学基金、法国国家研究局等机构项目评审人。

Associate Professor. Ph.D., Clemson University; Postdoc, University of Toronto. He is dedicated to study organic matter biogeochemistry in the plant-soil-water continuum. He has received the Youth Scientist Award (Gold Prize) of the Chinese Society for Environmental Sciences, the Outstanding Young Scholar Award from the Soil Science Society of China, and the Editor's Citation for Excellence of the Journal of Environmental Quality (JEQ). He published 150+ papers on journals including Nature Plants, Nature Communications, Water Research, and Environmental Science & Technology. He is serving as an associate editor of JEQ. He has served as a reviewer for National Science Foundation of China, National Science Foundation (US) and France National Research Agency (ANR) proposals.

田展 TIAN, Zhan

副教授，中国科学院地理科学与资源研究所理学博士，国际应用系统分析学会博士后，科技部重点研发计划项目负责人，国际理论物理中心高级访问学者，鹏城国家实验室兼聘博导。目前主要从事气候变化风险评估与应对方面研究。获英国皇家工程院Distinguished International Associate、深圳市高层次专业人才（后备级）、第八届中国技术市场金桥奖，上海市科学技术进步三等奖（排名3），ICTP Associate、START Fellow、上海市“十一五”节能减排先进个人，上海市市级机关青年岗位能手，上海市优秀“青年突击队”队长等个人称号。

Associate Professor. PhD in Physical Geography and Resources at the Chinese Academy of Sciences; Postdoctoral fellow of the International Society for Applied Systems Analysis; Principal Investigator of the Key Research and Development Program of the Ministry of Science and Technology; Senior Visiting Scholar of the International Centre for Theoretical Physics; Joint PhD Supervisor at the Pengcheng Laboratory. He is currently engaged in research on climate change risk assessment and response. He has been awarded the Distinguished International Associate of the Royal Academy of Engineering, High-level Professional Talent of Shenzhen (Reserve Level), 8th China Technology Market Golden Bridge Award, Third Prize for Shanghai Science and Technology Progress (Rank 3), Associate of ICTP, START Fellow.

夏雨 XIA, Yu

副教授，香港大学博士。研究兴趣集中于：利用Nanopore测序为代表的基因组学技术，解密复杂环境微生物群落中的种间互作关系以及关键基因（耐药基因）转移规律。近五年来在Environmental Science & Technology、Water Research、Genome Research等期刊发表一作/通讯论文50余篇，总引用次数3700余次（Google Scholar）。现任iMeta、Frontiers in Environmental Science期刊副主编，中国工程院院刊Engineering青年编委。主持国自然面上项目、青年项目各一项，并担任两项科技部重点研发计划课题负责人。获深圳市“海外高层次人才”，南方科技大学“研究生优秀导师”，“优秀书院导师”等荣誉。曾担任南方科技大学教授委员会代表委员，美国微生物协会香港地区青年大使。

Associate Professor. Ph.D., University of Hong Kong. She is interested in applying advanced sequencing and molecular technology, such as long read-based metagenomics, microfluidics,and single-cell analysis, to explore the functionality and interactions of the unculturable majority of the environmental microbiome in engineered systems, indoor environments, and extreme environments.

史海匀 SHI, Haiyun

副教授，清华大学本科、博士。曾在香港大学从事博士后/高级研究助理工作，荣获香江学者奖（2014年）、国家级青年人才项目（2018年）、大禹水利科学技术一等奖（2022年）。主要研究方向为气候变化下极端水文事件等。主持或参与国家自然科学基金等重要科研项目10余项。发表论文80余篇（其中，ESI高被引论文4篇，第一作者或通讯作者60余篇），另有英文专著1部，英文专著章节4部，省部级科学技术成果3项，发明专利3项，软件著作权1项。受邀作为Nature Food、Nature Communications等30余种期刊的审稿人，2种期刊副编辑（Journal of Hydrology、Vadose Zone Journal），6种期刊编委，IPCC第六次评估报告同行评审专家。

Associate Professor. Ph.D., Tsinghua University. He worked previously as a Postdoctoral Fellow/Senior Research Assistant at The University of Hong Kong, and won the Hong Kong Scholars Award in 2014. He won the Da Yu Award for Water Science and Technology (1st grade award) in 2022. His main research interest is hydrological extremes under climate change. He has been the PI/Co-PI of more than 10 research projects. He has published over 80 journal papers (over 60 papers as the first author or corresponding author), 1 book and 4 book chapters. He has obtained 3 provincial-level scientific and technological achievements. He has been invited as the reviewer of over 30 international journals(e.g., Nature Food,Nature Communications) and the Expert Reviewer of the IPCC Sixth Assessment Report (Working Group II). He has served as the Associate Editor (Journal of Hydrology, Vadose Zone Journal) or Editorial Board Member of 6 journals.

陈洪 CHEN, Hong

副教授，瑞典斯德哥尔摩大学博士，瑞典皇家工学院、美国斯坦福大学与加州大学伯克利分校博士后。先后入选广东省杰青与国家级四青人才。现任环境科学与工程学院党委书记、深圳市材料界面科学和工程应用重点实验室副主任。主要从事绿能驱动固废关键元素低碳循环利用工艺开发与污染控制化学、环境材料相关器件与装备设计开发研究。近年来在Science Bull.、Science Adv.、PNAS、Nature Comm.、JACS、Angew. Chem.、Nano Lett.、ACS Nano、EST、WR等杂志发表论文170篇，申请专利30余项，授权12项，转化3项，谷歌学术总引用12500余次，H-index 60。获中国化学会青年环境化学奖、中国有色金属学会循环经济青年突出贡献奖、中国环境学会青年科学奖、美国化学会可持续化学与工程讲席奖、广东省环境科学学会生态环境青年科技奖金奖，连续多年入选斯坦福大学全球前2%科学家。担任Environmental Chemistry Letters (Q1, IF=20.5)副主编和Sustainable Horizons、Environmental Functional Material、Environmental Surface and Interface, Chinese Chemical Letters、《绿色矿冶》、Fundamental Research、《工业水处理》等杂志（青年）编委及Nature, Nature Sustain.、Nature Chem. Eng.、Nature Synth.等杂志审稿人。

Associate Professor with a Ph.D. from Stockholm University and postdoctoral fellowships at KTH Royal Institute of Technology, Stanford, and UC Berkeley. His research focuses on green energy-driven, low-carbon recycling of solid waste. He has published 170 papers in top journals such as PNAS, Science Advances, and Nature Communications, with over 12,500 citations (H-index 60). He is the recipient of numerous awards, including the Chinese Chemical Society's Young Environmental Chemist Award and ACS Lectureship Award for Sustainable Chemistry & Engineering. He has been named among Stanford University's top 2% of global scientists. He also serves as an Associate Editor for Environmental Chemistry Letters and a reviewer for journals including Nature and different Nature Sub-journals.

王钟颍 WANG, Zhongying

副教授，美国布朗大学博士。先后在布朗大学和加州大学伯克利分校从事博士后研究工作。主要研究方向包括膜分离技术，环境纳米技术，污染物环境转化归趋。近年主持国自然面上项目、深圳市重点项目、面上项目等；在Chemical Society Reviews、PNAS、ACS Nano、Advanced Materials、Nano Letters、Environmental Science and Technology、Nanoscale等杂志发表论文50余篇，总引用次数3300余次。并担任Water Research、Environmental Science: Nano、Environmental Science and Technology等十余个杂志的独立审稿人。

Associate Professor. Ph.D., Brown University, USA. His research interests include environmental transformation and implications of nanomaterials, the applications of nanomaterials in the environmental fields, and membrane based technologies for sustainable water supply. Dr. Wang has published 50 peer-reviewed papers on various journals, including Chemical Society Reviews, PNAS, ACS Nano, Advanced Materials, Nano Letters, Nanoscale, and Environmental Science and Technology. He serves as a reviewer for several journals, including Carbon, Water Research, Environmental Science: Nano, Journal of Hazardous Materials, and Environmental Science and Technology.

朱雷 ZHU, Lei

副教授，哈佛大学博士、博士后，哈佛-史密松天体物理中心研究员。从事大气化学研究，聚焦卫星遥感、排放反演、模式模拟、数据同化、空气质量、海陆气交互，发表SCI期刊论文100余篇，被引5000余次，h-index 33，主持参与基础研究项目20余项。研究曾获Nature杂志整篇报道，被NASA选为亮点工作，获PNAS新闻特写重点报道。OMI、OMPS、TEMPO、GEMS、高分2号等多个卫星科学团队成员。入选生态环境部《关于消耗臭氧层物质的蒙特利尔议定书》中国履约专家组（2022）、广东省“珠江人才计划”高层次人才项目（2022）、深圳市海外高层次人才团队（2022）。获美国气象学会特别贡献奖（2020）、NASA与美国内务部联合颁发的William T. Pecora团队奖（2018）、NASA团队成就奖（2015）、哈佛大学杰出教学认证（2013）。研究小组网站：https://www.acmrsg.org。

Associate Professor. Ph.D. (2016) and Poctdoc (2016-2019), Harvard University. Lei Zhu worked as a Research Scholar at Harvard-Smithsonian Center for Astrophysics (2019) before joining SUSTech. His research area is atmospheric chemistry with interests in remote sensing of trace gases, emission inversion, modeling, data assimilation, air quality, and atmosphere-land-ocean interactions. Lei has published more than 100 journal papers, with the total citation of over 5000 and the h-index of 33. He is a science team member of air quality satellites such as OMI, OMPS, TEMPO, GEMS, and Gaofen-2. Lei was awarded American Meteorological Special Award (2020), William T. Pecora Team Award (NASA and DOI, 2018), NASA Group Achievement Award (2015), and Harvard University Certificate of Distinction in Teaching (2013). Ground website: https://www.acmrsg.org.

沈惠中 SHEN, Huizhong

副教授，北京大学学士、博士，美国佐治亚理工学院博士后。专注于温室气体和大气污染物排放的定量表征，数值及AI算法在空气质量、人群健康和气候变化评估的应用。发表SCI论文195篇，其中第一/通讯作者论文在Nature Climate Change、Science Advances、Nature Human Behaviour、Nature Food、One Earth、ES&T等国际顶级期刊发表，单篇最高引用680次。Web of Science总引用11000次，H指数58。连续多年入选全球前2%顶尖科学家榜单。主持国家级青年人才项目、科技部国际合作重点专项课题、基金委面上和重大项目子课题等。担任Nature、Nature Food、Nature Communications等期刊的特邀审稿人，两次获ES&T超级审稿人奖。

Associate Professor. Ph.D., Peking University. Postdoc at the Georgia Institute of Technology. His research focuses on development of greenhouse gases and air pollutants emission inventory, as well as the application of numerical and AI algorithms in air quality, public health, and climate change assessment. As the first/corresponding author, he has published papers in top international journals like Nature Climate Change, Science Advances, Nature Human Behaviour, Nature Food, One Earth, and ES&T. He has published 195 SCI papers in total, accumulating >11,000 citations and an H-index of 58 according to Web of Science. He has been selected among the top 2% of global scientists. He serves as a reviewer for journals including Nature, Nature Food, and Nature Communications, and has received the ES&T Super Reviewer Award.

叶建淮 YE, Jianhuai

副教授，多伦多大学博士，哈佛大学博士后。主要研究方向包括大气污染物排放特征表征、大气污染形成机制及其环境气候效应、大气污染物化学传感器的开发与应用等。发表论文90余篇，其中第一/通讯作者论文发表在PNAS、Nature Communications、ES&T、ES&T Letters、GRL等领域知名期刊。主持国家自然科学基金优秀青年科学基金（海外）项目、国家自然科学基金面上/青年、深圳市自然科学基金重点/面上等，以项目骨干参与科技部国家重点研发青年科学家项目、国家自然科学基金区域创新发展联合基金重点项目等。曾获气溶胶青年科学家奖、Atmosphere Young Investigator Award、美国能源部大气化学新兴科学家等。担任《Atmospheric Measurement Techniques》和《Air Quality, Atmosphere & Health》副主编。

Associate Professor. Dr. Jianhuai Ye is a Ph.D. from the University of Toronto. His research focuses on the emission characteristics and atmospheric evolution of air pollutants, as well as the development and application of chemical sensors for atmospheric monitoring. He has published over 90 papers, including first/corresponding-author publications in journals such as PNAS, Nature Communications, ES&T, ES&T Letters, and GRL. He has led several key research projects, including the National Natural Science Fund for Excellent Young Scientists Fund (Overseas). Among his honors are the Aerosol Young Scientist Award, the Atmosphere Young Investigator Award, and the Emerging Scientist in Atmospheric Chemistry. He currently serves as an Associate Editor for Atmospheric Measurement Techniques and Air Quality, Atmosphere & Health.

王辰 WANG, Chen

副教授，加拿大多伦多大学环境化学博士，国家级青年人才。研究方向包括大气化学、室内空气污染、大气污染物室内外关联及影响等。通过实验室实验及外场实地观测等方法研究污染物的行为、多相分配过程、化学转化和室内外差异等。发表SCI论文50余篇，包含Science Advances（封面）、PNAS、Environmental Science&Technology等国际一流期刊，合著英文专著1部。中国环境科学学会室内环境与健康分会青年委员；入选大气化学学术研讨会新兴科学家（ACCESS XIV,2017），麻省理工大学土木与环境工程学术新星（MIT CEE Rising Star,2019），深圳市海外高层次人才（2021），国家级海外高层次青年人才（2021）。主持国家自然科学基金面上项目、深圳市科创委基础研究面上项目，参与国家自然科学基金重点项目等。

Associate Professor. Dr. Chen Wang received her PhD in Environment Chemistry at University of Toronto. Her research interests include indoor air quality, atmospheric chemistry, and the association between indoor and outdoor air pollution, etc. She has published over 50 papers in top journals, including Science Advances, PNAS, Environmental Science Technology, etc., and co-authored a book chapter. She was selected as Atmospheric Chemistry Colloquium for Emerging Senior Scientists (ACCESS XIV, 2017), as MIT CEE Rising Star (2019), and as National Level (overseas)Outstanding Young Talents (2021). Dr. Wang received funding support from NSFC program and the local funding agency.

张斌田 ZHANG, Bintian

副教授，中国科学院生态环境研究中心博士，国家优秀青年基金获得者（海外）。主要研究方向为基于生物分析及生物传感器的环境健康效应研究、污染物的快速检测及便携式仪器开发等。主持包括国家自然科学基金在内的科研项目多项。在PNAS、JACS、ACS Nano、Nano Letters、AC等顶级学术期刊发表论文40余篇，申请及获批国际专利（PCT）、美国和中国专利共11项，实现成果转化2项，相关技术已获B轮融资。曾获“亚利桑那州立大学技术转让优秀奖”、“ACS 特殊贡献奖”等奖励。担任中国环境科学学会新污染物治理专业委员会委员、环境纳米领域知名期刊《Environmental Science: Nano》副主编。

Associate Professor. Ph.D. from the Chinese Academy of Sciences. Recipient of the NSFC Excellent Young Scientists Fund Program (Overseas). His research focuses on the development of bioanalytical techniques and biosensors, with applications in environmental monitoring and molecular toxicology. He holds 11 patents, including PCT, U.S., and Chinese patents, and has published over 40 peer-reviewed papers, with first-author publications in top journals such as PNAS, JACS, ACS Nano, and Nano Letters. He is a member of the Emerging Pollutant Treatment Professional Committee of the Chinese Society of Environmental Sciences and serves as Associate Editor of “Environmental Science: Nano”, a leading journal in environmental nanotechnology.

郑国贸 ZHENG, Guomao

副教授，入选国家级青年人才及深圳市孔雀特聘岗位。2021年加入南方科技大学环境科学与工程学院，先后在中山大学和北京大学获得学士及博士学位，并在美国印第安纳大学从事博士后研究。主要从事新污染物环境暴露，代谢致毒机理以及高分辨质谱方法开发研究。成果发表在PNAS、ES&T、ES&T:Letters等国际一流知名期刊。曾获得国际暴露学会年度最佳论文奖、ES&T年度最佳论文奖、北京大学优秀博士论文和唐孝炎环境科学创新奖一等奖。担任Journal of Hazardous Materials和Hygiene and Environmental Health Advances青年编委。

Associate Professor. Dr. Zheng Guomao is recognized by the National High-level Overseas Talent Program and Shenzhen Peacock Talent Program. He holds degrees from Sun Yat-sen University and Peking University, with postdoctoral research at Indiana University. His work focuses on environmental exposure to emerging pollutants, mechanisms of metabolism-induced toxicity, and high-resolution mass spectrometry. His publications in PNAS, ES&T, and other top journals have earned him awards like the International Society of Exposure Science Best Paper Award and the ES&T Annual Best Paper Award. He is also a Youth Editorial Board Member for the Journal of Hazardous Materials and Hygiene and Environmental Health Advances.

裘文慧 QIU, Wenhui

副教授，博士生导师，国家自然科学基金优秀青年基金获得者，深圳市海外高层次人才，广东省土壤与地下水污染防控及修复重点实验室副主任。研究方向为新污染物的生态毒理学。共发表学术论文80余篇,其中第一/通讯作者SCI论文50余篇。截至2024年9月，论文总引次数4300余次。近五年主持国家级以及省市级各类科研项目10余项。先后获广东省环境科学学会生态环境青年科技奖金奖,环境保护科学技术奖二等奖(3/9)和广东省环境保护科学技术奖一等奖(1/15)。现任环境领域知名期刊Int. Immunopharmacol.副主编、EGAH副主编、ES&T Letters 编委。

Associate professor. Doctoral advisor, The Excellent Young Scientist of National Natural Science Foundation of China, Shenzhen Overseas High-level Talent. Her research interests Ecotoxicology of emerging pollutants. Total paper citation over 4300 by September 2024. Hosted over 10 national and provincial research projects. Obtained the first prize of Guangdong Environmental Protection Science and Technology Award, the gold prize of Guangdong Eco-Environment Youth Science and Technology Award. Associate Editor of Int. Immunopharmacol., Associate Editor of EGAH , Editorial Board member of ES&T Letters.

郭芷琳 GUO, Zhilin

副教授，教育部特聘青年学者。美国亚利桑那大学博士，在美国加州大学戴维斯分校从事博士后研究。主要研究方向为(1)地下水流及污染物运移数值模拟；(2)地表水-地下水交互作用下的生态环境效应模拟；(3)流域尺度污染物迁移的升尺度研究；(4)区域地下水污染风险研究。发表论文50余篇，其中以第一/通讯作者身份在Nature Food、Water Resources Research、Journal of Hydrology等国际知名期刊发表论文30余篇。先后主持科技部重点研发计划课题、国家自然科学基金面上等国家、省市级项目。获广东省环境科学学会生态环境青年科技奖金奖。担任Water Resources Research、Journal of Hydrology、Groundwater等水资源领域国际知名期刊副主编以及水资源多个期刊审稿人。目前担任国际水利与环境工程学会(IAHR)水文地质委员会委员、美国地球物理联合会(AGU)地下水委员会委员等职。

Associate Professor. Ph.D., University of Arizona. She conducted postdoctoral research at the University of California, Davis, USA. Her research interests are: (1) numerical modeling of groundwater flow and contaminant transport; (2) eco-environmental effects under surface water–groundwater interactions; (3) upscaling of watershed-scale pollutant transport; and (4) regional groundwater contamination risk assessment. She has published more than 50 papers, about 30 of which are published in Nature Food, Water Resources Research, Journal of Hydrology, and other internationally renowned journals as the first/corresponding author. She has led 7 national, provincial, and municipal research project and received the Gold Award of the Youth Science and Technology Prize from the Guangdong Environmental Science Society. She serves as the associate editor of Water Resources Research, journal of Hydrology, Groundwater and reviewer for several water resources journals.

叶斌 YE, Bin

助理教授，哈尔滨工业大学博士，清华大学和美国劳伦斯伯克利国家实验室博士后。主要从事环境规划和能源经济方面的研究工作，擅长将环境科学方法与经济管理科学方法相结合，研究全球和区域尺度的气候、能源和经济发展方面的问题；主持国家自然科学基金3项（面上2项，青年1项）、主持国家电网和南方电网等央企科研项目3项。目前已经发表科研论文100余篇，入选2025斯坦福全球前2%顶尖科学家榜单。担任Environmental Geochemistry and Health 副主编、Applied Energy 青年编委。

Assistant Professor. Ph.D. from Harbin Institute of Technology, Postdoctoral Fellow at Tsinghua University, and Lawrence Berkeley National Laboratory in the United States. Primary research focuses on environmental planning and energy economics, specializing in the integration of environmental science methodologies with economic and management science approaches to address climate, energy, and economic development issues at global and regional scales. Has led three projects funded by the National Natural Science Foundation of China (two general projects and one youth project), as well as three research projects commissioned by central enterprises, including State Grid and China Southern Power Grid. To date, has published over 100 scientific papers and was listed in the 2025 Stanford Top 2% Scientists Worldwide. Serves as an Associate Editor for Environmental Geochemistry and Health and as a Youth Editorial Board Member for Applied Energy.

梁修雨 LIANG, Xiuyu

助理教授，南京大学博士。主要从事地下水资源与环境方向的研究工作，重点关注界面水动力理论及模拟，具体包括：饱和-非饱和水流耦合模拟、地表－地下水交互作用、地下水流及溶质的时间尺度性、多孔介质气体流动过程及模拟等。发表科技论文50余篇，其中以第一/通讯作者身份在水资源及环境领域顶级期刊Water Resources Research、Environmental Science & Technology、Water Research等上发表SCI论文30余篇。主持包括国家自然科学基金、科技部重大专项子课题、国家水专项子任务和省自然科学基金等6项。担任中国水利学会地下水科学与工程专业委员会委员、国际水文科学协会中国委员会地下水分委会委员。分别担任国际学术期刊Vadose Zone Journal（2020-）和Stochastic Environmental Research and Risk Assessment（2019-）副主编，担任中文学术期刊《地质科技通报》（2022-）首届青年编委，并长期担任水资源领域10多个学术期刊的审稿人，获得水文学国际知名期刊Journal of Hydrology杰出审稿人称号。

Assistant Professor. Ph.D., Nanjing University. His research interests include coupling unsaturated-saturated flow, interaction between the surface water and groundwater flow, temporal scaling of groundwater flow and solute transport in watersheds, and modeling of vapor transport in porous media. He published almost 50 scientific papers, and the most of the papers are published on top-tier SCI journals, including Water Resources Research, Environmental Science & Technology, and Water Research. He has been the PI of 6 funded projects. He is a committee member of Groundwater Science and Engineering Committee of Chinese Hydraulic Engineering Society, and Commission on Ground Water of CNC-IAHS, respectively. He is serving as editorial board members for three scientific journals"Vadose Zone Journal","Stochastic Environmental Research and Risk Assessment", and "Bulletin of Geological Science and Technology".

雷洋 LEI, Yang

助理教授、博士生导师，瓦赫宁根大学博士，欧盟玛丽居里学者。研究方向为低碳水处理与资源化。在环境领域主流期刊发表论文50余篇，第一或通讯论文40余篇，其中20篇为Nature Communications (2), ES&T (7)、Water Research (11)，谷歌学术引用3000余次，H指数25，单篇引用超700次；授权荷兰和中国专利3项，申请国际专利3项，中国发明专利3项。主持荷兰基金委和欧盟玛丽居里子课题、广东省科技厅、深圳市科创局项目共6项；担任《中国给水排水》和Journal of Environmental Chemical Engineering期刊青年编委、中国沼气协会青年专家委员；曾获国家优秀自费留学生，Marcel Mulder Prize（一年颁发一位），湖北省自然科学三等奖等荣誉。

Assistant Professor. He was a Marine Sklodowska-Curie Fellow. He obtained PhD with Prof Cees Buisman from Wageningen University in 2019 on"electrochemical phosphorus removal and recovery". Afterward, he worked on electrochemical P recovery at a large-scale in Wetsus as a post-doctoral researcher. In this period, he received the NWO Take-off Grant. In 2021, he joined SUSTech as an assistant professor. Currently, he is leading the Environmental Electrochemistry Laboratory at SUSTech. The mission of his lab is to initiate innovation in addressing the water-food-energy nexus challenge. His team works on energy-efficient wastewater treatment and resource recovery.

姜丽光 JIANG, Liguang

助理教授、博士生导师，丹麦科技大学博士/博士后。研究方向为遥感水文学，重点开展对地观测（Earth-Observation, EO）技术在水文和水资源领域的理论与应用研究，具体包括地表水体动态监测、卫星测高数据产品研发、河道地形观测与反演、流域水文模拟、河道水动力模拟等。在Remote Sensing of Environment、Water Resources Research、Geophysical Research Letters、Hydrology and Earth System Sciences、遥感学报等期刊上共发表论文50余篇，其中一作或通讯论文30余篇。主持包括国家自然科学基金等项目4项。担任Sustainable Water Resources Management副编辑（Associate Editor）、Journal of Remote Sensing和《人民珠江》期刊青年编委，长期担任多个水文学和遥感领域国际顶级期刊审稿人。

Assistant Professor. He obtained PhD in Remote Sensing & Hydrology from the Technical University of Denmark. His research interests span both remote sensing and hydrological sciences. He has worked on hydrological dynamics of surface water bodies, e.g. lakes, reservoirs, and rivers in the context of climate change. His PhD research has centered on the potentials of radar altimetry for inland water monitoring and modeling. He has made some contributions to hydrodynamic modeling using distributed altimetry derived Water Surface Elevation data, broadening the range of applications of satellite altimetry. Currently, he works on several projects including NSFC general program. Liguang serves an Associate Editor of Sustainable Water Resources Management, and editorial board members for several journals, such as Journal of Remote Sensing, Renmin Zhujiang, etc. Liguang has published more than 50 research articles, e.g. Remote Sensing of Environment, Water Resources Research, Journal of Hydrology, Geophysical Research Letters, Journal of Geophysical Research – Atmospheres, etc.

刘延 LIU, Yan

助理教授，博士生导师，广东省“珠江人才计划”高层次人才项目，深圳市高层次引进人才。在清华大学获得学士和博士学位，先后在美国德州理工大学、英国伦敦大学学院从事博士后研究，2022年9月加入南方科技大学。研究方向为环境流体力学，重点开展天然水域中的湍流结构、泥沙输移和底栖动物的相互作用关系。在Communications Earth & Environment、Water Resources Research、Journal of Fluid Mechanics等多个领域主流期刊上发表论文20余篇。主持国自然科学基金委面上项目1项、科技部重点研发项目子课题2项、深圳市面上项目1项。担任《Frontiers in Marine Science》期刊专刊客座编辑、《应用基础与工程科学学报》青年编委。

Assistant Professor and Ph.D. Advisor, recognized by the Guangdong “Pearl River Talent Program” and Shenzhen’s high-level talent program. He earned his Bachelor degree and Ph.D. from Tsinghua University and completed postdoctoral research at TTU and UCL. His research focuses on environmental fluid mechanics, exploring turbulence, sediment transport, and benthic interactions in natural waters. Liu has published over 20 papers in top journals, including Comm. Earth Environ., JFM, and WRR. He leads one NSFC project, two sub-projects under the Ministry of Science and Technology, and one Shenzhen-funded project. He also serves as a guest editor for Frontiers in Marine Science and on the Youth Editorial Board of the Journal of Applied Foundations and Engineering Sciences.

教学系列 TEACHING FACULTY

史江红 SHI, Jianghong

教学教授，清华大学环境工程本科，东京农工大学博士。中国环境科学学会化学品环境风险防控专业委员会常务委员。研究领域为雌激素塑化剂阻燃剂等新污染物环境行为、毒理毒性及环境风险评估研究。主持土专项课题、国自然及深圳市“三线一单”项目40余项。发表论文78篇，发明专利授权12项，合作教材2部。获教育部高等学校科学研究技术发明一等奖等。承担《污染物环境行为与风险评估》、《可持续发展与环境保护课程》等课程教学。

Teaching Professor. Ph.D., Tokyo University of Agriculture and Technology. B.S., Tsinghua University. Committee Member of the Chemical Environmental Risk Prevention and Control Professional Committee of the Chinese Society for Environmental Sciences. Research focuses on the environmental behavior, toxicological toxicity and environmental risk assessment of new pollutants. She has presided over 40 research projects including the National key research and development program, NSFCs and enterprise cooperation projects. She has published 78 papers, been granted 12 invention patents, and co-authored 2 textbooks. Her contributions have been recognized with the First Prize in Technical Invention of the Higher Education Scientific Research Outstanding Achievement Award from the Ministry of Education. She undertakes courses including Environmental Behavior and Risk Assessment of Pollutants and Sustainable Development and Environmental Protection etc.

王扬 WANG, Yang

教学副教授，滑铁卢大学博士，城市规划和环境设计方向，美国规划师协会成员。有丰富的城市规划项目经验和教学经验，曾任职于加拿大卡市规划部，曾任教于北京大学工学院。

Teaching Associate Professor. Ph.D., University of Waterloo. Member of APA. She has rich experience in both project implementing and teaching in urban planning and environmental design areas as she worked for the City Calgary, Canada and taught at the Peking University, China.

杨丽红 YANG, Lihong

教学副教授，北京大学博士，生态环境部流域地表水-地下水污染综合防治重点实验室副主任。长期从事土壤与地下水污染防治、流域生态环境保护与修复、数学模型在环境管理中的应用及推广等工作。参与编撰多项生态环境部及地方技术标准与技术规范，担任多项生态环境部地下水污染防治试点项目技术负责人、生态环境部地下水污染防治试验区专家库成员、中国环保品牌集群专家委员会委员、亚洲开发银行地下水面源污染控制技术专家。

Teaching Associate Professor. Ph.D., Peking University, Deputy Director of MEE Key Laboratory of Integrated Surface Water-Groundwater Pollution Control. Working expertise is focused on soil and groundwater environmental protection and contamination control, watershed ecological protection and restoration, application and promotion of mathematical models in environmental management, etc.

研究系列 RESEARCH FACULTY

易树平 YI, Shuping

研究教授，西班牙Universidad de A Coruna博士，生态环境部流域地表水-地下水污染综合防治重点实验室副主任，广东省地下水污染防控与修复工程技术中心副主任，中国环境科学学会环境与岩土工程专业委员会委员。主要从事土壤与地下水污染机理、迁移模拟、溯源预警、智慧监管及风险管控研究。主持包括国家自然科学基金、国家水专项子任务和千万级横向课题在内项目20余项。发表论文50余篇、专利30余项，编制国家及团体标准4部、专著1部。获得荣誉包括第十四届青年地质科技奖-银锤奖，最美生态环境科技工作者等。研究成果先后获全国优秀工程咨询成果奖一等奖1项（排名第一）；省部级科学技术奖一等奖6项（排名前三），二、三等奖各 1 项（排名前三）。

Research Professor. Ph.D., University de A Coruna, Spain. Dr. Yi serves as the Deputy Director of the Key Laboratory of Comprehensive Prevention and Control of Surface Water-Groundwater Pollution of the Ministry of Ecology and Environment. His research interests include the soil and groundwater pollution mechanisms, solute transport modelling, source tracing and early warning, intelligent supervision, and risk management and control. He has been the PI of over 20 funded projects. Dr. Yi has Published over 50 journal articles, obtained over 30 patents, compiled 4 national and group standards, and authored 1 monograph. He was awarded the “Silver Hammer Award” and the “Most beautiful ecological environment science and technology researcher”. His research results have won 9 Science and Technology Awards including 1 first prize of the National Excellent Engineering Consulting Achievement Award and 6 first prizes of provincial and ministerial level Awards.

田勇 TIAN, Yong

研究副教授，华中科技大学博士、北京大学博士后。研究领域包括生态水文、水动力与水环境数值模拟、GIS/RS与水环境科学的交叉应用等。主持国家自然科学基金项目3项、科技部重点研发计划子课题1项。发表SCI论文40余篇，获得软件著作权7项。论文主要发表于Water Resources Research、Environmental Modelling & Software等专业领域顶尖学术期刊。

Research Associate Professor. Ph.D., Huazhong University of Science and Technology. He worked as a postdoctoral research fellow in the Institute of Water Sciences at Peking University. His research interests include ecohydrology, numerical simulation of hydrodynamics and water environment, and GIS/RS applications in hydrology and water resources. He has obtained funding for over 6 research projects, including NSFC, the National Key Research and Development Program of China, etc. Dr. Tian has published more than 40 SCI journal articles, including Water Resources Research and Environmental Modelling & Software. He has also applied 7 software copyrights.

韩峰 HAN, Feng

研究副教授，北京大学博士。主要从事流域尺度生态、水文、水质过程数值模拟方法研究，包括开发新的流域模型、发展高效的模型-数据融合方法（如贝叶斯分析、数据同化、优化算法等）和对国内外流域的应用研究。主持和参与国家自然科学基金等科研项目10余项，在水文、水资源、环境科学领域发表SCI论文30余篇。

Research Associate Professor. Ph.D. His research mainly focuses on the numerical simulations of ecological, hydrological and water quality processes at the watershed scale, including developing new watershed models, designing new model-data fusion methods (such as Bayesian analysis, data assimilation and optimization algorithm) and applying the new models or methods to foreign and domestic basins. Dr. Han has participated in more than 10 research projects. He has published more than 30 SCI joural papers in the fields of hydrology, water resources and environmental science.

颜枫 YAN, Feng

研究副教授，清华大学博士。研究方向为固体废物资源化及CO_2捕集利用，包括工业固体废物高值资源化技术、生物质废物能源化利用技术、CO_2捕集和利用技术、生活垃圾焚烧污染控制技术；已在能源环境领域顶级期刊上共发表SCI论文86篇、总引用次数4300+，授权中国发明专利32项、美国发明专利2项。

Research Associate Professor. Ph.D. of Tsinghua University. He focus on the high-value utilization of solid-waste and the CO_2 capture & utilization, including Recycling and reuse of industrial solidwaste, Biomass waste to energy, CO_2 capture & utilization, and Pollution control of waste incineration. He has published 86 journal papers in the field of environment and energy with over 4300 citations, and has been authorized for 32 Chinese invention patents and 2 American invention patents.

段艳华 DUAN, Yanhua

研究副教授，中国地质大学（武汉）博士。博士期间获国家留学基金委资助，赴斯坦福大学进行博士联合培养。主要研究领域为地下水污染与防治、水文地球化学，通过野外调查、动态监测与室内模拟实验相结合的方法，揭示原生劣质地下水成因及原生污染物在非均质含水层中的迁移转化规律。在Nature Water、Environmental Science & Technology等期刊上发表论文28篇。

Research Associate Professor. Ph.D., China University of Geosciences (Wuhan). She studied at Stanford University during 2014 to 2015 as a visiting graduate student and researcher. Her research focus on hydrogeochemistry and groundwater contamination, especially on geogenetic poor-quality groundwater and migration/transformation of contaminants in heterogeneous aquifers.

Alejandro Palomo Gonzalez

研究助理教授，丹麦技术大学环境工程专业博士/博士后，研究方向为微生物生态学、生物信息学，阐述在自然生态和人工调控的生物地球化学过程中微生物的群落结构和生态功能，例如氮循环中全程硝化细菌的基因组学分析和生态变异演化，截至目前已在ISME:J、Commun. Biol.等期刊上发表文章10余篇。

Research Assistant Professor. Ph.D and Postdoc in Environmental Engineering at Technical University of Denmark. The research focuses on bioinformatics and microbiology, to study the role of microorganisms in natural and human-engineered ecosystems – such as the ecology, genomics, physiology and evolution of microorganisms in the Nitrogen cycle. Dr. Palomo has published > 10 papers in ISMEJ, Commun.Biol., etc.

马云杰 MA, Yunjie

研究助理教授，丹麦技术大学环境工程专业博士，南方科技大学博士后。研究方向为环境微生物学和水污染控制工程，包括微生物碳、氮代谢过程的模拟与机理研究，典型微量有机污染物的生物降解与迁移转化规律等。主持或参与国家自然科学青年基金项目、中国-丹麦国际合作项目等。

Research Assistant Professor. Ph.D in Environment Engineering, Technical University of Denmark. The research focuses on environmental biotechnology in water pollution control, including microbe-mediated carbon and nitrogen cycles, the biotransformation and migration of micropollutants, and the microbial process modelling and metabolism study. Dr. Ma has led and participated in the Youth program of Natural Science Foundation of China, the international program of Danida Fellowship Center, etc.

范典 FAN, Dian

研究助理教授，美国德克萨斯理工大学石油工程博士，曾在英国伦敦大学学院从事博士后研究工作。主要研究工作聚焦于多尺度地下地质体中流体和微纳固体颗粒的运移的理论和数值模拟。其研究应用于微纳塑料处理、油气藏开采过程的防砂、纳米环境示踪剂回收，以及水力压裂井的支撑剂设计。

Research Assistant Professor. Ph.D. in Petroleum Engineering, Texas Tech University, the USA. Prior to his hire at SUSTech, Dr. Fan worked as a Postdoc Research Associate at University College London, the UK. His research focuses on multi-scale theoretical and numerical studies of the transport of fluids and micro-/nano-particles in geological media. His work applies to micro-/nano-plastics removal, sand control in hydrocarbon productions, recovery of environmental nanoparticle tracers, as well as proppants design in hydraulic fracking.

陶玮 TAO, Wei

研究助理教授，北京大学环境地理专业博士。主要从事大气化学的模式模拟研究，具体的方向包括多相化学机制、奇氧族物种的源解析、污染物迁移转化的过程分析等，发表SCI论文19篇。立志于化学传输模式的优化和改进，有着丰富的模型开发经验，在区域空气质量模型WRF/Chem框架下独立开发过多个功能性模块。

Research Assistant Professor. Ph.D. of the Peking University. He focuses on modeling the atmospheric chemistry, the research topics include multiphase chemistry mechanisms, source attribution of odd oxygen family and the process analysis of evolution for airborne pollutants. He has published over 19 SCI papers. He devotes himself to improving the chemical transport model, and has independently developed several modules under the framework of WRF/Chem model.

翟璟豪 ZHAI, Jinghao

研究助理教授，复旦大学－哈佛大学联合培养博士。研究方向为大气气溶胶的理化特性综合表征，主要包括大气颗粒物的光学特性及健康效应。研究成果发表在ES&T、GRL、ACP等专业领域学术期刊。

Research Assistant Professor. Ph.D. at Fudan University and joint Ph.D. at Harvard University. Her research interests are the physicochemical properties of atmospheric aerosols, including the optical property and health effects of fine particles. She has published academic papers in top journals in environmental science, such as ES&T, GRL, and ACP.

沈雪华 SHEN, Xuehua

研究助理教授，南方科技大学与哈尔滨工业大学联合培养博士。研究方向为固体废物资源化利用、CO_2捕集,利用与封存，包括粉煤灰高值化利用、固废源基体材料孔隙结构调控和固态胺吸附剂稳定性机制研究等。近年来在Nature Communications、Environmental Science & Technology、Journal of Materials Chemistry A、Chemical Engineering Journal等主流期刊发表学术论文30余篇，申请发明专利15项（授权8项）。

Research Assistant Professor. Ph.D., Southern University of Science and Technology and the Harbin Institute of Technology. Dr. Shen' s research focus on solid waste resource utilization, CO_2 capture, utilization and storage, including high value utilization of coal fly ash, control of pore structure of support materials derived from solid waste, and stabilization mechanism of solid amine adsorbent. Dr. Shen has published 30 academic papers in mainstream journal, such as Nature Communications, Environmental Science & Technology, Journal of Materials Chemistry A, Chemical Engineering Journal, and applied for 15 invention patents (8 authorized).

孔令超 KONG, Lingchao

研究助理教授，硕士生导师，深圳市海外高层次人才C类。近年来，围绕城市水体污染控制技术及氮磷元素地球化学过程开展理论研究与应用创新，主持国家自然科学基金、深圳市优秀科技创新人才、深圳市技术攻关、中国博士后科学基金等项目。以第一作者发表论文9篇，H因子21。担任Elsevier旗下国际开源期刊《Sustainable Horizons》青年编委。

Research Assistant Professor. Ph.D from Harbin Institute of Technology. Dr. Kong is awarded as a high-level overseas talent in Shenzhen. He has carried out theoretical research and application innovation focusing on urban water pollution control technology and nitrogen-phosphorus element geochemistry processes. He has published nine papers with an H-index of 21.

丁隆真 DING, Longzhen

研究助理教授，吉林大学博士，南开大学－南科大联培博士后。主要研究领域包括：循环经济、水土污染防控、环境大数据和土壤道地药材互作关系等。主持国家重点研发项目子课题、国家自然科学基金项目、广东省自然科学基金－青年提升项目等4项，相关成果以第一作者在ES&T、Water Research等顶刊发表，获得授权中国发明专利3项，美国发明专利1项。

Research Assistant Professor. Ph.D., Jilin University. His research interest includes circular economy, water/soil pollution prevention and restoring, environmental big data, and interaction relationships between soil and "Daodi" herbs. Dr. Ding has led two sub-topic of National key R & D projects, one NSFC project, and one NSF of Guangdong Province. His representative research publications including ES&T and Water Research.

曾娅玲 ZENG, Yaling

研究助理教授，西安交通大学与瑞士洛桑联邦理工学院联合培养博士、南方科技大学校长卓越博士后。研究方向为大气颗粒物有机分子的气候效应、内暴露机制和健康效应。发表论文29篇，出版专著1部。主持国家自然科学基金青年项目、博士后面上基金。

Research Assistant Professor. Ph.D, Xi'an Jiaotong University and Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland. She is Presidential postdoctoral fellow of SUSTech. Her research focuses on the climate effects, internal exposure mechanisms, and health effects of organic molecules in atmospheric particulate matter. She has published 29 papers and one monograph. Dr. Zeng has led the Youth project of National Natural Science Foundation of China and Postdoctoral Research Foundation of China.

刘嵩 LIU, Song

研究助理教授，德国慕尼黑工业大学博士，德国宇航局博士后，比利时皇家空间航空研究所访问学者。研究方向为痕量气体遥感、大气化学模式等。发表Environ. Sci. Technol.、Atmos. Meas.Tech.等国际知名期刊文章10余篇，担任Earth Syst. Sci. Data、Atmospheric Environ.等10余个期刊审稿人，主持国家自然科学基金青年基金项目。

Research Assistant Professor. Ph.D. of Technical University of Munich, Postdoc Research Associate at German Aerospace Center, Visiting Scientist at Royal Belgian Institute for Space Aeronomy. Her research interests include trace gas remote sensing and chemical transport model.

张傲星 ZHANG, Aoxing

研究助理教授，北京大学物理/心理学双学士，佐治亚理工学院博士。研究方向为空气质量数值模拟预报，野火气溶胶模拟，人工智能与地球系统模型耦合应用等。在SCI期刊发表论文十余篇，主持国家自然科学青年基金等项目，具备一定的科普写作经验和基于心理动力学的临床心理咨询经验。

Research Assistant Professor. B. Sc of Physics & Psychology in Peking University, Ph.D in Georgia Tech. He focues on air quality forecasts, wildfire, and AI applications on earth system models, published 10+ SCI papers. He is also experienced in popular science writing and clinical psychological counseling.

郑伟智 CHENG, Wai-chi

研究助理教授，香港大学博士，瑞士洛桑联邦理工学院博士后，研究方向为大气边界层湍流与空气污染物输送、大涡模拟、风能、城市表面参数化以及基于机器学习方法的风速预报模型开发。在Atmospheric Environment、Boundary-Layer Meteorology、Building and Environment等国际知名期刊发表文章10余篇，主持国家自然科学基金项目。

Research Assistant Professor. Ph.D. of University of Hong Kong, Post-doc Researcher at Ecole Polytechnique Fédérale de Lausanne (EPFL). His research interests include turbulent flows and air pollutant transport in atmospheric boundary layers, large-eddy simulation, wind energy, urban surface parametrization, and developing fast flow prediction models based on machine learning methods.

王维实 WANG, Weishi

研究助理教授，德国波茨坦大学博士（亥姆霍兹学会全额博士奖学金），鲁汶大学硕士，中科院生态与地理研究客座研究员。长期从事，水资源、水质、水量管理优化工作。涉及地下水、地表地下水交互带，湖泊、湿地、矿山等多要素，包括水循环过程中流域、河道、地下水中水质、水量数值模拟，污染物降解分析等工作。

Research Assistant Professor. Ph.D. of University of Potsdam, Germany (GeoSim Scholarship), MSc of KU Leuven. His research focus on groundwater, surface-groundwater interaction, lakes, wetlands, and mining environments, with the direction of numerical modeling of water quality and quantity in catchment, rivers, groundwater, as well as pollutant degradation analysis.

张梦涛 ZHANG, Mengtao

研究助理教授，博士毕业于香港浸会大学环境科学专业，主要从事新污染物环境行为、毒理毒性与环境风险研究，特别是新污染物转化产物的毒理毒性研究。对酚类污染物的转化产物研究表明，转化产物毒性高于反应底物，增加了污染物环境转化风险的不确定性。

Research Assistant Professor. Zhang Mengtao obtained his PhD from Hong Kong Baptist University. His research focuses on the environmental behavior, toxicity and environmental risk of emerging contaminates, with a particular emphasis on the toxicological properties and environmental transformation products of these contaminants. He discovered that transformation products of phenolic pollutants exhibit higher toxicity compared to their original substrates, increasing environmental risk uncertainty.

熊睿 XIONG, Rui

研究助理教授，北京大学本科、香港科技大学博士。研究聚焦环境大数据与AI融合、可解释深度学习水文模型。在ES&T、WRR等期刊发表一作或通讯论文5篇，合作6篇。主持国家自然科学基金青年项目1项、水利部粤港澳大湾区水安全保障重点实验室开放基金项目1项。

Research Assistant Professor. Rui Xiong holds a Ph.D. from HKUST and B.S. from Peking University. His research focuses on integrating environmental big data, AI, and interpretable deep learning for hydrology. He has authored 11 papers in top journals (e.g., ES&T) and leads two projects, including a National Natural Science Foundation of China Youth Program.

访问系列 VISITING FACULTY

刘俊国 LIU, Junguo

讲席教授，瑞士苏黎世联邦理工学院博士、欧洲科学院院士。国家杰出青年科学基金获得者，入选科技部科技创新领军人才，英国皇家气象学会会士、英国皇家地理学会会士。在水资源时空演变、水质性缺水评价和河流生态修复等方面取得了系统性创新成果，提出了三维水资源短缺理论以及渐进式生态修复理论，研究工作在国内外产生了重要影响。出版中英文/译注7部，发表论文230余篇。曾担任9份国内外学术刊物执行主编、主编、副主编、编委等职。创建了中国首个聚焦生态修复的省级学会－北京生态修复学会，并担任首任和第二任理事长。曾获世界科学院奖、欧洲地球科学联合会“杰出青年科学家奖”、国际恢复生态学学会“技术传播奖”、中国青年科技奖、教育部高等学校科学研究优秀成果奖等。

Chair Professor. Ph.D., Swiss Federal Institute of Technology in Zurich (ETH Zurich). Member of Academia Europaea. His main research interests include hydrology and water resources, and ecological restoration. He has led a pioneering work on advancing water resources assessment in coupled human-natural systems, in particular for global hydrology research and water scarcity assessment by incorporating water resources quantity, quality and environmental flow requirement. He introduced the three-dimensional (3D) water scarcity theory, and the stepwise ecological restoration theory. He founded two ecological restoration organizations in China: The Society for Ecological Rehabilitation of Beijing (SERB), and the Union of Societies for Ecological Restoration and Environmental Protection (USEREP). Prof. Liu is author of 7 books and over 230 publications, including articles in Science (2), Nature (2), PNAS (3), Nature Climate Change (3), Nature Communications (2), Nature Sustainability (2) and Science Advances (1).

冯炼 FENG, Lian

教授，武汉大学博士。科技部青年人才、深圳市国家级领军人才。主要从事水环境遥感的理论、方法及应用研究。获得中国地理学会科学技术奖－青年科技奖、中国环境科学学会青年科学家奖等荣誉。近年来主持或参与国家自然科学基金重大项目、重点项目，科技重点研发专项等20余个科研项目。共发表第一/通讯作者论文50余篇，近半数在Nature、Nature Geoscience、Nature Communications、Geophys Res Lett等顶级期刊上，且多次入选期刊封面论文（包括Nature封面论文）、ESI热点文章及高被引论文，Google Scholar总被引4600余次。研究成果在国内多个相关部门成功应用、被中央电视台、中国新闻网、路透社、U.SNews、ScienceDaily等数十家国内外知名媒体与科技组织广泛报道，并入选2022年度“中国海洋与湖沼十大科技进展”。

Professor. Ph.D., Wuhan University. He has been selected for the National "Ten Thousand Talents Program" as a young top-notch talent and has been recognized as a Pearl River Young Scholar of Guangdong Province. He mainly engaged in the theory, methods and application of water environment remote sensing. He has received several prestigious awards, including the Young Scientist and Technology Award from the Geographical Society of China, the Youth Scientist Award from the Chinese Society for Environmental Sciences, the Li Xiaowen Remote Sensing Science Award, and was named one of China's Top Ten Emerging Scientific Figures. His research was also acknowledged in 2022 and 2023 as one of the Top Ten Scientific and Technological Advances in Oceanography and Limnology in China. Dr. Feng has led over 20 national, provincial, and other projects. He has published nearly 100 SCI papers, with more than half appearing in top-tier journals such as Nature, Nature Geoscience, Nature Water, Nature Communications, Remote Sensing of Environment, Journal of Geophysical Research, and Environmental Science & Technology. His publications have been cited over 6200 times on Google Scholar, with an H-index of 44. In addition, Dr. Feng serves as an editorial board member, associate editor, or guest editor for several domestic and international academic journals, including the National Remote Sensing Bulletin, Journal of Remote Sensing, Frontiers in Remote Sensing, and Remote Sensing in Earth System Sciences. His research has been highlighted by numerous domestic and international media and agencies, such as CCTV, China News Service, Reuters, and Science Daily, etc.

实验师 LAB SPECIALIST

熊鹰 XIONG, Ying

高级教学实验师，高级工程师，厦门大学博士，北京大学环境工程博士后，研究方向为高性能膜材料及其在水处理领域的应用研究，新型水处理工艺技术研究与应用。目前负责环境科学与工程专业本科实验教学。

Lab Specialist. Senior engineer, Lab specialist, Ph.D., Xiamen University. She worked as a postdoctoral researcher on environmental engineer in Peking University. Her research focus on high performance membrane materials and its' application on water and wastewater treatment, Water and wastewater treatment technology. She is now responsible for environmental science and engineering undergraduate experimental teaching.

工程师 ENGINEER

罗树生 LUO, Shusheng

高级工程师，本科毕业于汕头大学，2010年12月获得中山大学食品安全生物学博士学位。主要从事环境有机污染物的微生物降解行为研究，主持国家自然科学基金青年基金项目一项。2013年入职南科大，现任南方科技大学环境科学与工程学院科研工程师，主要负责学院土壤与地下水污染防治重点实验室和环境科学公共实验平台建设工作。2014年获深圳市高层次专业人才（后备级）认定。

Engineer. He got a Bachelor's degree from Shantou University of China in 2005 and a Ph.D degree from SUN YAT-SEN University in 2010. Dr. Luo currently works as an engineer in Southern University of Science and Technology. Prior to his current position, he worked in South China Agriculture University as a post-doctoral research fellow until August 2013. His research focused on the biodegradation of Polycyclic Aromatic Hydrocarbons (PAHs) and the environmental fate of PAHs metabolites, which is financially supported by the project of national Natural Science Foundation of China project for young scolars. Dr. Luo was elected as a reserve talent by the program of "Shenzhen High-level Talent Plan"in 2014.

叶思思 YE, Sisi

工程师，本科毕业于内蒙古农业大学，2020年6月获得中国地质大学（武汉）材料科学与工程硕士学位。2024年入职南方科技大学，主要负责环境科学与工程学院公共科研平台X射线光电子能谱仪、钨灯丝扫描电子显微镜等仪器的管理工作以及平台部分公共事务。

Engineer. Graduated from Inner Mongolia Agricultural University with a bachelor's degree and obtained a master's degree in materials science and engineering from China University of Geosciences (Wuhan) in June 2020. She joined SUSTech in 2024 and is mainly responsible for the management of X-ray photoelectron spectrometer, tungsten filament scanning electron microscope and other instruments of the public research platform of the School of Environmental Science and Engineering, as well as some public affairs of the platform.

行政职员
Administrative Staff

姓名 Name	岗位 Position	电话/邮件 Phone/E-mail
苏园园 SU, Yuanyuan	办公室主任兼人事秘书 Director of the Office & Personnel Secretary	0755-88010822
王雅婷 WANG, Yating	财务秘书 Financial Secretary	0755-88018871
孟珍 MENG, Zhen	科研秘书 Research Secretary	0755-88018056
倪文成 NI, Wencheng	党务秘书兼本科生事务秘书 Undergraduate Affairs Secretary	0755-88010821
张娟 ZHANG, Juan	研究生教务秘书 Graduate Academic Affairs Secretary	0755-88018064
林立莲 LIN, Lilian	研究生招生兼国际化事务秘书 Graduate Recruitment Secretary & International Affairs Secretary	0755-88018140
周亦潆 ZHOU, Yiying	宣传秘书 Publicity Secretary	0755-88018054
刘公正 LIU, Gongzheng	安全员 Laboratory Safety Officer	liugz2022@sustech.edu.cn

Academic Reputation
学术影响力

2025年度国际影响力
2025 Annual Impact

科睿唯安2025年度“高被引科学家”
Clarivate Analytics 2025 "Highly Cited Researchers"

郑春苗
ZHENG, Chunmiao

曾振中
ZENG, Zhenzhong

2024爱思唯尔中国高被引学者
Elsevier's 2024 "Highly Cited Chinese Researchers”

徐政和
XU, Zhenghe

郑春苗
ZHENG, Chunmiao

冯炼
FENG, Lian

2025年度全球前2%顶尖科学家榜单
World's Top 2%Scientists 2025

学术生涯科学影响力排行榜
Career-long Impact

陶澍
TAO, Shu

徐政和
XU, Zhenghe

张东晓
ZHANG, Dongxiao

郑春苗
ZHENG, Chunmiao

刘崇炫
LIU, Chongxuan

郑焰
ZHENG, Yan

张作泰
ZHANG Zuotai

年度科学影响力排行榜
Single-year Impact

陶澍
TAO, Shu

徐政和
XU, Zhenghe

张东晓
ZHANG, Dongxiao

郑春苗
ZHENG, Chunmiao

刘崇炫
LIU, Chongxuan

郑焰
ZHENG, Yan

李海龙
LI, Hailong

方红卫
FANG, Hongwei

郑一
ZHENG, Yi

张作泰
ZHANG Zuotai

曾振中
ZENG, Zhenzhong

唐圆圆
TANG, Yuanyuan

匡星星
KUANG, Xingxing

王俊坚
WANG, Junjian

史海匀
SHI, Haiyun

陈洪
CHEN, Hong

王钟颍
WANG, Zhongying

沈惠中
SHEN, Huizhong

裘文慧
QIU, Wenhui

叶斌
YE, Bin

孔令超
KONG, Lingchao

国际会士
Fellows of Professional Soceity

美国地球物理联合会会士
Fellows of the American Geophysical Union (AGU)

郑春苗
ZHENG, Chunmiao (2019)

郑焰
ZHENG, Yan (2021)

刘俊国
LIU, Junguo (2025)

美国地质学会会士
Fellows of the Geological Society of America (GSA)

郑春苗
ZHENG, Chunmiao (1999)

郑焰
ZHENG, Yan (2010)

刘崇炫
LIU, Chongxuan (2011)

科研平台
Research Platforms

土壤污染防治与安全全国重点实验室

土壤污染防治与安全全国重点实验室于2024年12月获批，由浙江大学牵头，联合生态环境部环境规划院、南方科技大学共同组建，是生态环境领域面向土壤环境方向的国家级平台。

实验室围绕深入推进土壤污染防治攻坚战、美丽中国、科技强国建设的国家战略需求，面向土壤安全与健康战略目标，聚焦长三角、珠三角、京津冀及长江中下游工业园区及周边土壤、区域性重污染耕地，发挥多学科综合交叉和全链条融合优势，破解土壤污染防治与安全面临的新问题和新挑战，攻克土壤与地下水污染过程精准识别、绿色生态修复、污染风险防控等关键技术难题，创建土壤安全与健康理论方法，形成土壤污染治理的中国方案，打造国家战略科技力量，成为世界一流的土壤安全与健康创新高地与人才中心，高水平支撑我国土壤污染防治转向土壤安全，迈向土壤健康，保障老百姓吃得放心、住得安心。

State Key Laboratory of Soil Pollution Control and Safety

State Key Laboratory of Soil Pollution Control and Safety was approved in December 2024. Led by Zhejiang University and jointly established by the Chinese Academy of Environmental Planning (CAEP) and the Southern University of Science and Technology (SUSTech) , it is a national platform in the field of ecology and environment focusing on soil environment.

The laboratory is centered on the national strategic needs of deeply promoting the battle of soil pollution prevention and control, beautiful China, and the construction of a strong scientific and technological country, oriented to the strategic goal of soil safety and health, focusing on the Yangtze River Delta, the Pearl River Delta, Beijing-Tianjin-Hebei area, and the middle and lower reaches of the Yangtze River in the industrial parks and the surrounding soils, and the regional heavily contaminated arable land, giving full play to the advantages of the multidisciplinary comprehensive intersection and whole-chain fusion, and deciphering the new problems and challenges faced by the prevention, control, and safety of soil pollution, to overcome the key technical issues of precise identification of soil and groundwater pollution processes, green ecological remediation, pollution risk prevention and control, create soil safety and health theories and methods, form a Chinese program for soil pollution control, build a national strategic scientific and technological force, and become a world-class innovation highland and talent center for soil safety and health, so as to support China's soil pollution prevention and control to turn to soil safety and move towards soil health at a high level, and to guarantee that the people can eat and live safely. The people can eat and live with peace of mind.

生态环境部流域地表水—地下水污染综合防治重点实验室

生态环境部流域地表水—地下水污染综合防治重点实验室是环境科学与工程学院2018年获批建设的国家环保实验平台，也是南科大第一个部级重点实验室。重点实验室面向我国环境保护的重大科技需求，充分发挥依托单位的地域和人才优势，在基础理论、应用技术与管理政策等层面，开展以流域地表水-地下水污染综合治理为核心理念的前沿及应用性研究工作，为我国流域水环境保护和水污染防治提供有力的科技支撑和创新人才培养基地。

MEE Key Laboratory of Integrated Surface Water-Groundwater Pollution Control

This is the first ministry-level Key Laboratory at SUSTech, which serves as a national research platform for integrated surface water-groundwater pollution control. The Key Laboratory aims to address the major needs in environmental protection in China, draws from the talents in the school of Environment, and conducts cutting-edge research in the comprehensive control of surface water and groundwater pollution.

环境科学与工程学院目前拥有1个国家级平台、5个省部级平台以及4个市级平台

The school currently has the following 1 national-level platform, 5 provincial-level ministry platforms, and 4 municipal-level platforms.

①土壤污染防治与安全全国重点实验室（共建）
State Key Laboratory of Soil Pollution Control and Safety

②生态环境部流域地表水—地下水污染综合防治重点实验室
MEE Key Laboratory of Integrated Surface Water-Groundwater Pollution Control

③粤港土壤与地下水污染防控及修复联合实验室
Guangdong-Hong Kong Joint Laboratory for Soil and Groundwater Pollution Control

④广东省土壤与地下水污染防控及修复重点实验室
Guangdong Provincial Key Laboratory of Soil and Groundwater Pollution Control

⑤广东省地下水污染防控与修复工程技术研究中心
Guangdong Provincial Engineering Center of Groundwater Remediation

⑥广东省大湾区滨海大气环境与气候背景野外科学观测研究站
Guangdong Provincial Observation and Research Station for Coastal Atmosphere and Climate of the Greater Bay Area

⑦深圳市土壤与地下水污染防治重点实验室
Key Laboratory of Soil and Groundwater Pollution Control of Shenzhen City

⑧深圳市城市固体废弃物资源化技术与管理重点实验室
The Key Laboratory of Municipal Solid Waste Recycling Technology and Management of Shenzhen City

⑨深圳市城市环境健康风险精准测量与预警技术重点实验室
Shenzhen Key Laboratory of Precision Measurement and Early Warning Technology for Urban Environmental Health Risks

⑩深圳市环境物联网技术与应用工程实验室
Shenzhen Municipal Engineering Lab of Environmental IoT Technologies

四大特色研究方向
Four Featured Research Areas

经过十年的发展，学院已形成鲜明的环境地球科学与环境信息技术学科特色。其中，环境地球科学立足地球系统科学视角，攻克环境污染、生态保护、灾害预防等科学难题，提出工程技术解决方案，助力人类社会实现可持续发展；环境信息技术依托AI赋能环境+健康大数据，研发水—土—气环境管理所需的模型模拟、预警预报及可视化技术，引领AI+生态环境领域的技术创新，服务美丽中国建设。

After a decade of development, the school has formed distinct disciplinary features in Environmental Geoscience and Environmental Information Technology. Specifically, Environmental Geoscience, based on the perspective of Earth system science, addresses scientific challenges such as environmental pollution, ecological protection and disaster prevention, proposes engineering and technical solutions, and facilitates the sustainable development of human society. Environmental Information Technology leverages AI to empower environment-health big data, develops model simulation, early warning and forecasting, and visualization technologies required for water-soil-air environmental management, leads technological innovation in the field of AI-enabled ecological environment.

01 水环境与水资源 Water Environment and Resources

研究气候变化与人类活动影响下的水循环演变及其环境、生态、资源效应。重点研究地球水圈多界面（陆-海、地表-地下、水-沙等）的水动力和生物地球化学过程，大规模水资源开发利用的生态环境效应及其调控，全球水环境的大数据分析与人工智能预报等。

The research area focuses on changes in the water cycle driven by climate change and human activities, along with their environmental, ecological, and resource effects. Major topics include hydrodynamic and biogeochemical processes across various interfaces in the Earth's hydrosphere (e.g., land-sea, surface-groundwater, water-sediment, etc.), the ecological and environmental impacts of large-scale water resource exploitation and management, and the use of big data analysis and artificial intelligence for global water environment forecasting.

02 大气环境与全球变化 Atmospheric Environment and Global Change

探讨人类活动对大气环境影响与其机制、气候系统与生态系统相互作用、大气环境暴露与气候灾害风险预测管控、行业减碳潜力与效益评估等研究。特色在于由地球系统视角，依托数据和信息工程技术，研发创新观测技术、排放清单、多尺度多圈层耦合模型，全链条研究大气环境与全球变化的机制、影响、风险。

We investigate the impact of human activities on the atmospheric environment and their underlying mechanisms, the interactions between climate and ecological systems, the prediction and management of atmospheric pollutant exposure and climate disaster risks, and the assessment of carbon reduction potential and benefits across industries. Our work is distinguished by its Earth system perspective, leveraging data and information engineering technologies to develop innovative observation techniques, emission inventories, and multi-scale, multi-sphere coupled models. It aims to comprehensively study the mechanisms, impacts, and risks associated with atmospheric environments and global change.

03 低碳发展与资源循环 Low-carbon Development and Resource Recycling

致力于低碳资源循环利用、碳捕集与封存、资源与环境交互作用、绿色低碳城市发展等的理论和技术研究。该方向依托区域产业优势，深入探索城市矿产资源化与低碳发展技术；同时，基于区域大数据和人工智能基础，构建碳排放监测与碳捕获技术体系。

This research direction is dedicated to the theoretical and technical studies of low-carbon resource recycling, carbon capture and storage, resource-environment interactions, and green low-carbon urban development. It leverages regional industrial advantages to deeply explore urban mineral resource utilization and low-carbon development technologies. At the same time, it builds a carbon emission monitoring and carbon capture technology system based on regional big data and artificial intelligence foundations.

04 环境与健康 Environment and Health

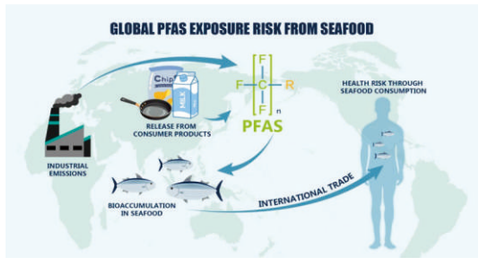
着重研究生态环境水、土、气、生多介质中有机和无机污染物的检测识别、迁移转化、致毒机制和风险预警防控。特色体现在聚焦新污染物的源汇与迁转规律；基于生态系统的污染暴露与毒理机制；以及基于暴露过程的风险管控技术体系。

This research direction focuses on the detection and identification, migration and transformation, toxic mechanisms, and risk prevention of organic and inorganic pollutants across multiple media, including water, soil, air, and biological systems within the ecological environment. Its defining characteristics include an emphasis on the sources, sinks, and transformation pathways of emerging pollutants; pollution exposure and toxicological mechanisms within ecosystems; and the development of risk management technologies centered on the exposure process.

科研成果
Research Output

学院2015年成立以来发表SCI论文3000余篇，包括大量发表在*Science*、*Nature*及其子刊、*PNAS*、Nature Index等期刊的高水平论文800余篇；承担包括国家自然科学基金创新研究群体项目、重大项目、重点项目、重大研究计划重点项目、国家科技重大专项、国家重点研发计划、广东省重点领域研发计划、广东省区域联合基金粤港澳研究团队项目、深圳市可持续发展专项等在内的各类科研项目690余项，获批经费总额超过7.8亿元。

Since 2015, the school has published over 3000 SCI papers, including > 800 papers published in high-impact journals such as *Science, Nature* and its affiliated journals, and *PNAS,* etc. The school has been awarded > 690 competitive research grants, including major awards funded by the Ministry of Science and Technology (MOST) and the National Natural Science Foundation (NSFC). The total award has exceeded 780 million Chinese Yuan (CNY).

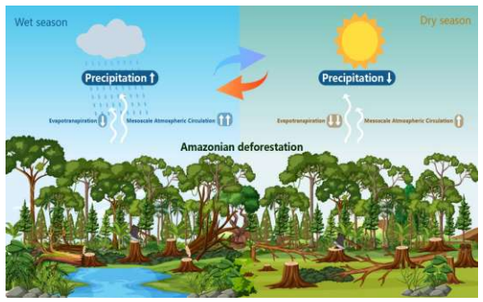


2025年12月《科学》论文：“海洋鱼类食用而导致的全氟和多氟烷基物质暴露风险”

Qiu, W.裘文慧, Yang, G., Cao, L., Niu, S., Li, Y., Fang, D., Dong, Z., Magnuson, J. T., Schlenk, D., Leung, K. M. Y., Zheng, Y., Zeng, Z., Feng, L., Zhang, X., Zhang, Y., Fan, W., Huang, T., Ma, J., Wu, M., Tao, S., … Zheng, C. (2025). Risks of per- and polyfluoroalkyl substance exposure through marine fish consumption. *Science (New York, N.Y.)*, 390(6779), 1305–1309. https://doi.org/10.1126/science.adr0351

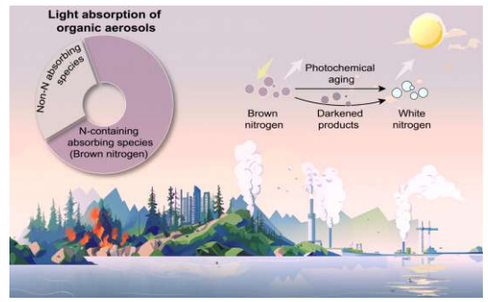
2025年7月《科学》论文:“2023年破纪录海洋热浪”

Dong, T., **Zeng, Z.**曾振中, Pan, M., Wang, D., Chen, Y., Liang, L., Yang, S., Jin, Y., Luo, S., Liang, S., Huang, X., Zhao, D., Ziegler, A. D., Chen, D., Li, L. Z. X., Zhou, T., & Zhang, D. (2025). Record-breaking 2023 marine heatwaves. *Science (New York, N.Y.)*, 389 (6758), 369–374. https://doi.org/10.1126/science.adr0910



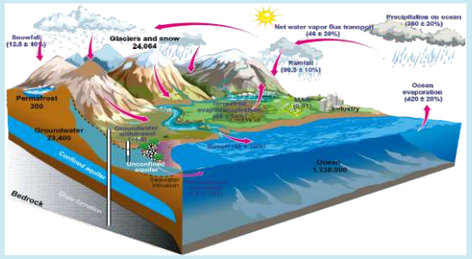
2025年3月《自然》论文：“亚马孙森林砍伐对降水影响的季节性反转特征研究”

Qin, Y., Wang, D., Ziegler, A. D., Fu, B., & **Zeng, Z.** 曾振中 (2025). Impact of Amazonian deforestation on precipitation reverses between seasons. *Nature,* 639(8053),102–108. https://doi.org/10.1038/s41586-024-08570-y



2025年2月《科学》论文：“氮主导全球大气有机气溶胶的吸光效应”

Li, Y., **Fu, T. M.**傅宗玫, Yu, J. Z., Zhang, A., Yu, X., Ye, J., Zhu, L., Shen, H., Wang, C., Yang, X., Tao, S., Chen, Q., Li, Y., Li, L., Che, H., & Heald, C. L. (2025). Nitrogen dominates global atmospheric organic aerosol absorption. *Science (New York, N.Y.)*, 387 (6737), 989–995. https://doi.org/10.1126/science.adr4473



2024年3月《科学》论文:“地下水在全球水循环中的关键作用与变化”

Kuang, X.匡星星, Liu, J., Scanlon, B. R., Jiao, J. J., Jasechko, S., Lancia, M., Biskaborn, B. K., Wada, Y., Li, H., Zeng, Z., Guo, Z., Yao, Y., Gleeson, T., Nicot, J. P., Luo, X., Zou, Y., & **Zheng, C.**郑春苗 (2024). The changing nature of groundwater in the global water cycle. *Science (New York, N.Y.),* 383(6686), eadf0630. https://doi.org/10.1126/science.adf0630

2024年2月《自然》论文:“机器学习指导全球农田氨减排”

Xu, P., Li, G., **Zheng, Y.**郑一, Fung, J. C. H., Chen, A., Zeng, Z., Shen, H., Hu, M., Mao, J., Zheng, Y., Cui, X., Guo, Z., Chen, Y., Feng, L., He, S., Zhang, X., Lau, A. K. H., Tao, S., & Houlton, B. Z. (2024). Fertilizer management for global ammonia emission reduction. *Nature*, 626(8000), 792–798. https://doi.org/10.1038/s41586-024-07020-z

2024年3月《科学》论文:“人为气候变化影响了全球河川径流季节性”

Wang, H., **Liu, J.**刘俊国, Klaar, M., Chen, A., Gudmundsson, L., & Holden, J. (2024). Anthropogenic climate change has influenced global river flow seasonality. *Science (New York, N.Y.),* 383(6686), 1009–1014. https://doi.org/10.1126/science.adi9501

2023年3月《自然》封面论文:“21世纪以来近海浮游植物藻华扩张并加剧”

Dai, Y., Yang, S., Zhao, D., Hu, C., Xu, W., Anderson, D. M., Li, Y., Song, X. P., Boyce, D. G., Gibson, L., Zheng, C., & **Feng, L.**冯炼(2023). Coastal phytoplankton blooms expand and intensify in the 21st century. *Nature,* 615(7951), 280–284. https://doi.org/10.1038/s41586-023-05760-y

科研奖励
Scientific Research Awards

国际科技奖励
International Awards

序号	名称	获奖人	获奖类型及等级	获奖年份
01	/	胡清	IBM全球杰出学者奖(IBM Faculty Award)	2016年
02	/	刘俊国	国际恢复生态学学会“技术传播奖” 2017 Communication Award	2017年
03	/	Park, Chang-Eui	2018 WMO Research Award for Young Scientists	2018年
04	/	刘俊国	世界科学院奖	2020年
05	/	曾振中	全球前沿科技青年科学家奖	2021年
06	/	刘俊国	水文领域Paul A. Witherspoon Lecture	2021年
07	/	曾振中	第19届亚洲－大洋洲地球科学联合会(Asia Oceania Geosciences Society, AOGS) Kamide Lecture	2022年
08	/	刘俊国	2022年世界科学院(TWAS)社会科学奖	2022年
09	/	刘俊国	国际水文科学奖Volker奖章	2023年
10	/	田展	2023年度英国皇家工程院国际杰出学者伙伴项目奖	2023年
11	先进碳捕集技术及装备	张作泰、颜枫	日内瓦国际发明展评审团“特别嘉许金奖”	2023年
12	/	郑焰	2023年—2024年美国地球物理联合会会士院杰出系列报告人	2023年
13	/	陈洪	美国化学会可持续化学与工程讲席奖	2025年

统计时间截至2025年12月

获得包括国家技术发明奖一等奖、国家科技进步二等奖、教育部青年科学奖、中国青年科技奖、环境保护科学技术奖、中国环境科学学会青年科学家奖、广东省环境保护科学技术奖、深圳市科技进步奖、求是杰出青年学者奖等各类奖项70余项。

The school has won more than 70 various awards, including the First Class National Technology Invention Award, the Second Class National Science and Technology Progress Award, the Ministry of Education Young Scientists Award, the China Youth Science and Technology Award, the Environmental Protection Science and Technology Award, the Chinese Society for Environmental Sciences Young Scientists Award, the Guangdong Provincial Environmental Protection Science and Technology Award, the Shenzhen Municipal Science and Technology Progress Award, and the Qiushi Outstanding Young Scholar Award.

国家科技奖励
National-Level Science and Technology Awards

序号	名称	获奖人	获奖类型及等级	获奖年份
01	京津冀地下水污染防治关键技术与应用	胡清	国家技术发明奖一等奖	2024年
02	流域水环境重金属污染风险防控理论技术与应用	胡清	国家科学技术进步奖二等奖	2017年

统计时间截至2025年12月

部分省部级奖励
Selected Provincial and Ministerial-Level Science and Technology Awards

序号	名称	获奖人	获奖类型及等级	获奖年份
01	/	刘俊国	教育部青年科学奖	2018年
02	/	刘俊国	第十五届中国青年科技奖	2019年
03	城市河流生态修复的关键技术及应用	刘俊国、张作泰、唐圆圆	深圳市科技进步奖－社会公益类一等奖	2020年
04	地下水污染精准识别与系统防治关键技术及应用	胡清	2022年度北京市科学技术奖科学技术进步奖一等奖	2023年

统计时间截至2025年12月

Industrial and Social Impact
产业与社会影响力

学院注重地方服务和产学研合作，累计开展230余项横向项目，总金额超2亿元。聚焦环境智慧监测与监管、生态保护、污染防治等领域，为国家和地方生态环境污染防治提供专家、智库和技术支撑，推动科研成果落地转化。学院申请专利320余项，获授权专利110余项，部分专利实现转让、转化；参与编制国家环境保护标准、行业标准等13项，有效推动了生态环境污染防治行业的发展。

The school prioritizes local service and the integration of industry, academia and research. It has carried out a total of over 230 horizontal projects with a total value exceeding ¥200 million. Focusing on fields such as intelligent environmental monitoring and supervision, ecological protection, and pollution prevention and control, it provides expert, think tank and technical support for national and local ecological and environmental pollution prevention efforts, and promotes the application and transformation of scientific research achievements. The school has filed more than 320 patent applications and been granted over 110 patents, with some of these patents achieving technology transfer and commercialization. It has also participated in the formulation of 13 national environmental protection standards and industry standards, effectively boosting the development of the ecological and environmental pollution prevention and control industry.

南方科技大学工程技术创新中心（北京）
SUSTech Engineering Innovation Center (Beijing)

南方科技大学工程技术创新中心（北京），依托南方科技大学环境科学与工程学院，紧密结合我国环保产业发展现状及行业特点，定位于消除科研成果与产业应用之间的鸿沟，以为社会带来效益、给教师创造机会、为学生带来就业、给企业创造利润为发展宗旨。通过与学术界和工业界的联合，将科研成果有效社会化、产业化、公开化，打造国际化的环境保护领域创新平台。创新中心的主要工作包括：研发关键环保技术，推动关键环保技术的工程化开发和系统集成，推进其示范推广和产业化；参与我国环保行业政策、标准规范、技术导则的制定，为国家环境管理，监督与决策提供技术支持和服务；为广大学生、专业人才和公司技术骨干提供专业培训，建设国际化产学研用交流与合作平台。

The SUSTech Engineering Innovation Center (Beijing) is supported by the School of Environmental Science and Engineering. Closely aligned with the development of the environmental protection industry in China, the Innovation Center focuses on bridging the gap between scientific research and industrial applications. It helps faculty to convert their research product to benefit the society, as well as provides employment opportunities to graduates and profits to enterprises. The Innovation Center connects the academia and the industry by commercializing cost-effective and publicly-accessible products or services, as well as pushes these SUSTech products and technologies to the global stage. The mission of the Innovation Center includes: development of key environmental technologies, promotion and integration of key environmental technologies into engineering applications, and demonstration and commercialization. The Innovation Center will also participate in developing Chinese environmental protection policies, standards and technical guidelines, providing technical support and services to central and local authorities in the fields of environmental management, monitoring, and decision-making.

深碳科技（深圳）有限公司
DeCarbon Tech

深碳科技（深圳）有限公司是南方科技大学通过科研成果转化孵化的代表性气候科技企业，由国家杰青张作泰教授团队创立。公司依托学校前沿科研实力，深耕新一代二氧化碳捕集技术，通过高效工业烟气捕集与直接空气碳捕集（DAC），精准攻克难减排行业痛点并实现大气残余碳移除。深碳科技致力于将实验室顶尖成果转化为应对气候变化的实效方案，为国家“双碳”战略提供关键技术支撑。

DeCarbon Tech is a SUSTech spin-off founded by Professor Zuotai Zhang's team. Leveraging cutting-edge research, we specialize in next-generation carbon capture, focusing on high-efficiency industrial flue gas capture and Direct Air Capture (DAC). By mitigating emissions in hard-to-abate sectors and facilitating atmospheric CO_2 removal, DeCarbon Tech translates scientific excellence into scalable industrial impact, providing vital technical pathways for global climate governance and China's Dual Carbon goals.