S/n	photo	Name
1		Professor Alexander Babanin
2		Professor Anthony Gordon Fane
3		Professor A. Khodadadi Darban
4		Professor A.K. Dikshit
5		Professor Apostolos Giannis
6		Professor Bill Clarke
7		Prof Biao Huang

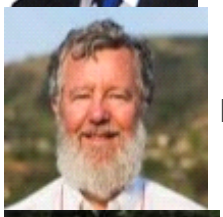
8  **Prof Bryan W. Brooks, Ph.D.**

9  **Professor Carol Lin**

10  **Professor Chen Dezhen**

11  **Professor Chen Guanghao**

12  **Adjunct Associate Professor Cheong Hock Lai**

13  **Professor Chris Buckley**

14  **Professor Chris Whitely**

15  **Professor Christian Zwiener**

16  **Prof D. Bhattacharyya (DB)**

17  **Professor David C. Stuckey**

18  **Professor David Zhu**

19  **Professor Dong-Jiing Doong**

20  **Dr Dorota Paulina Bankiewicz**

21  **Dr Emile Cornelissen**

22  **Dr Fabio Tatano**

23  **Professor Gan Thian Yew**

24  **Professor Guillermo C. Bazan**

25  **Dr Guo Dabin**

26  **Professor Hayley Shen**

27  **Professor Hallvard Ødegaard**

28  **Professor He Pinjing**

29  **Professor Henry Lee Po-Heng**

30  **Professor Hervé Gallard**

31  **Dr Hung Ji Huang**

32  **Professor Hung Tao Shen**

33  **Professor Jianying HU**

34  **Dr Hu Mian**

35  **Prof. Hyunook Kim**

36  **Professor Jan-Olof Drangert**

37  **Dr Ji Bin**

38  **Dr Ji Whan Ahn**

39  **Professor Jia Qinxiang**

40  **Professor Jiang Helong**

41  **Dr Jin Qian**

42  **Dr Jo-Shu Chang**

43  **Dr John Chew**

44  **Dr Jorg Imberger**

45  **Professor Joseph H.W. Lee**

46  **Professor Joydeep Mukherjee**

47  **Professor Juu En Chang**

48  **Dr Ken Wei Sheng Chen**

49  **Prof Kim Jaehong**

50  **Dr Li-Chung Wu**

51  **Professor Lin Chiu-Yue**

52  **Professor Linda Zou**

53  **Professor Lloyd Chua**

54  **Dr Lu Xiao Ming**

55  **Dr Lucas Rye**

56  **Professor Naomichi Yamamoto**

57  **Dr Makoto Katagiri**

58  **Dr Marco Ritzkowski**

59  **Dr Maria Aloupi**

60  **Professor Mark Davidson**

61  **Dr Mark Van Loosdrecht**

62  **Dr Michael Bird**

63  **Professor Min Yang**

64  **Professor MD. Azhar Uddin**

65  **Professor Mohamed Khayet**

66  **Dr Ole Hjelmar**

67  **Professor Oliver J Hao**

68  **Associate Professor Olivier Lefebvre**

69  **Professor Philip John Binning**

70  **Professor Pedro A. Garcia Encina**

71  **Professor Peter Kjeldsen**

72  **Professor Peter Rem**

73  **Dr Petros Gikas**

74  **Professor Philip J. Roberts**

75  **Prof Prodromos Daoutidis**

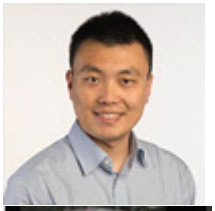
76  **Professor Poojitha Yapa**

77  **Professor Qiuhua Liang**

78  **Professor Raffaello Cossu**

79  **Professor Rainer Stegmann**

80  **Dr Raymond Zeng**

81  **Dr Roger (Ruo-Qian) Wang**

82  **Professor Sadhan Kumar Ghosh**

83  **Prof Sarper Sarp**

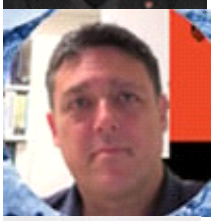
84  **Professor Seungyong Lee**

85  **Professor Shen Liang**

86  **Dr Sourav Mandal**

87  **Dr SK Singh**

88  **Professor Steven N. Liss**

89  **Professor Stuart Khan**

90  **Professor Su Ping**

91  **Dr Sun Faqian**

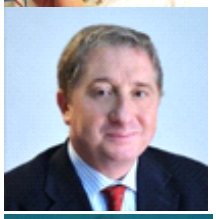
92  **Professor Tarik Bourouina**

93  **Professor Thanikal Varghese Joseph**

94  **Professor Thanos Bourtsalas**

95  **Professor Tobias Bleninger**

96  **Professor Tom Curtis**

97  **Professor Umberto Arena**

98  **Professor Victor Chang Wei-Chung**

99  **Professor Wang Guangli**

100  **Professor Wang Hailei**

101  Professor Yongshuo H Fu

102  **Dr Wang Yuxiang**

103  **Professor Wang Zheng**

104  **Professor Wei Yong**

105  **Professor William Bill Krantz**

106  **Dr William Tarpeh**

107  **Professor Wu Junfeng**

108  **Professor Yongshuo H Fu**

109  **Professor Zhang Fengxiu**

110  **Professor Zhang Xiangru**

111  **Prof Huacheng Zhang**

112  **Professor Zhao Qing Liang**

113  **Professor Zhou Jizhong**

114  **Professor Zhou Xin**

Affliation

The University of Melbourne, Department of Infrastructure Engineering

University of New South Wales

Tarbiat Modares University/Faculty of Engineering, Modares Environmental Research Center (MERC)

Indian Institute of Technology Bombay, India

Technical University of Crete (TUC)

Schools of Civil and Chemical Engineering
University of Queensland

University of Alberta Engineering Research

Distinguished Professor, Environmental Science and
Biomedical Studies;
Director of Environmental Health Science | Baylor University,
Waco, TX, US

City University of Hong Kong

Tongji University, China

University of Science & Technology, China

National Environment Agency, Singapore

University of Natal (now University of KwaZulu-Natal)

Rhodes University, South Africa

University of Tuebingen, Germany

University Alumni Chair Professor Dept of Chemical and
Materials Engineering Director,
Center of Membrane Sciences University of Kentucky

Imperial College London
Faculty of Engineering, Department of Chemical Engineering

University of Alberta
Department of Civil & Environmental Engineering

National Cheng Kung University (NCKU) in Tainan, Taiwan

Citec, Finland

KWR Watercycle Research Institute

University of Urbino

University of Alberta
Department of Civil & Environmental Engineering

University of California, Santa Barbara, CA

Huazhong University of Science and Technology

Clarkson University
Department of Civil and Environmental Engineering

University of California, Santa Barbara, CA

Tongji University, China

The Hong Kong Polytechnic University

Institut de Chimie et Matériaux
University of Poitiers (France)

Instrument Technology Research Center, National Applied Research Laboratories

Clarkson University
Department of Civil and Environmental Engineering

College of Urban and Environmental Science, Peking University

Huazhong University of Science and Technology

Chairperson of School of Environmental Engineering, the director of the R&D Center of Core Technology for Water Treatment, an Associate Editor of Chemosphere, Critical Review in Environmental Science & Technology, Energy, Ecology, and Environment, and Frontiers of Environmental Science and Engineering

Linköping University, Sweden

Wuhan University of Science & Technology

Kwangwoon University, Korea

Xi'an Jiaotong University, School of Science, Department of Chemistry

Chinese Academy of Science, China

Northwestern Polytehnical University

National Cheng Kung University, Taiwan

University of Bath, UK

University of Miami, Rosenstiel School of Marine and Atmosphere Science

Hong Kong University of Science and Technology
Department of Civil and Environmental Engineering

Ex-Director, School of Environmental Studies,
Jadavpur University

National Cheng Kung University, Taiwan

National Cheng Kung University, Taiwan

Department of Chemical and Environmental Engineering,
Yale University

National Cheng Kung University (NCKU) in Tainan, Taiwan

Feng Chia University, Taiwan

Khalifa University

Deakin University
School of Engineering

Wenzhou Vocational College of Science & Technology

Energy Transformation Flagship, CSIRO, Australia

Seoul National University

Taiheiyo Cement Corporation, Japan

Technische University, Hamburg

University of the Aegean

University of Canterbury
Civil & Natural Resources Engineering

Delft University of Technology

Department of Chemical Engineering
University of Bath

Chinese Academy of Science

Okayama University

University Complutense of Madrid

Professor Emeritus, University of Maryland

Department of Civil and Environmental Engineering
NUS Singapore

Department of Environmental Engineering
Technical University of Denmark (DTU)

University of Valladolid

Technical University of Denmark

Delft University of Technology

Technical University of Crete, Greece

Georgia Institute of Technology
School of Civil and Environmental Engineering

College of Science and Engineering Distinguished Professor,
Amundson Chair Department of Chemical Engineering and
Materials Science University of Minnesota

Clarkson University
Department of Civil and Environmental Engineering

Newcastle University, School of Civil Engineering and
Geosciences

University of Padua, Dean of Environmental Engineering

Hamburg University of Technology, Germany

The University of Queensland

University of Dundee, Civil Engineering

Jadavpur University, Kolkata, India

Associate Professor in Water Engineering
Loughborough University

Pohang University of Science and Technology (POSTECH),
South Korea

Xiamen University, China

CSIR-National Institute of Oceanography
Ocean Engineering Division

National Environmental Engineering Research Institute
(NEERI), India

Queen's University

University of Sydney

Tsinghua University

Zhejiang Normal University

Université Paris

Caledonian College of Engineering

Columbia University, New York

Federal University of Parana
Department of Environmental Engineering

Newcastle University

University of Campania, Italy

Monash University Victoria, Australia

Huaibei Normal University

Henan Normal University

Beijing Normal University (China)

University of Electronic Science and Technology of China

Nanjing Forestry University

Changzhou University

University of Colorado
Chemical and Biological Engineering

University of Michigan

Chinese Academy of Sciences

Vice-Dean,
College of Water Sciences
Beijing Normal University (China)

Southwest University
College of chemistry and chemical engineering

The Hong Kong University of Science and Technology, Hong Kong SAR, China
(Associate Editor of two Elsevier journals, Chemosphere and TrEAC)

Australian Research Council (ARC) Future Fellow and an Associate Professor in Chemical and Environmental Engineering at RMIT University

Harbin Institute of Technology, China

The University of Oklahoma
Director of Institute for Environmental Genomics

Taiyuan University of Technology

Specialty / Interests

Research Interest:
• Wind-generated waves
• Maritime engineering
• Air-sea interactions
• Ocean turbulence and ocean mixing
• Remote sensing of the ocean

Research Interest:
Membrane science & technology, with special interest in
• Applications to water and wastewater
• Membrane bioreactors, & water reclamation
• Desalination by RO and water treatment by MF and UF
• Membrane fouling and cleaning
• Module design & hydrodynamics
• Noninvasive observation of membrane processes, monitors, sensors

Research Interest:
• Surface Water Modeling
• Groundwater Modeling
• Ground Water Contaminant Transport
• Hydrological Evaluation of Landfill Performance
• Geo-Chemical Modeling
• Bio-Transformation Modeling

Research Interest:
• Environment
• Water Quality
• Environmental Impact Assessment
• Environmental Analysis
• Wastewater Treatment
And more...

Research Interest:
• Waste Management
• Treatment & management of sewage and industrial sludge
• Agro-industrial waste management
• Site remediation (soil, sediment, ground water)
• Hazardous waste management using thermal process

Research Interest:
• Reuse and recycling of solid organic waste

Reaesrch Interests:
Process data Analytics and Machine Learning
Neural network learning

•Water quality & reuse,
•Environmental & aquatic eco-toxicology,
•Comparative pharmacology & toxicology
•Environmental health & contaminants,
•Hazard & risk assessment,
•Harmful algal blooms urbanization

Research Interest:
• Valorization of food waste through conversion into commercially valuable products such as the production of biofuels, bio-degradable polymer and specialty chemicals

Research Interest:
• Thermal / Energy Engineering
• Energy Efficiency / Utilisation
• Renewable Energy and Environment Protection
• Waste Heat Recovery
• Gasification
• Thermal Imaging / Thermography

Research Interest:
• Novel biological wastewater treatment; new waste resource recovery; digitization of wastewater/sludge treatment; sewer network modelling and application; scale up engineering study

Research Interest:
• Solid waste management
• Incineration ash

Research Interest:
• Life cycle assessment
• Cleaner production
• Biological treatment processes
• Rural and peri urban sanitation

Research Interest:
• Biomedical and Environmental Enzymology

Research Interest:
• Pharmaceutical residues and disinfection by-products
• Organic trace pollutants

Professor Dibakar Bhattacharyya (DB) is the University of Kentucky Alumni Chair Professor of Chemical Engineering, Director of the UK Center of Membrane Sciences, and a Fellow of National Academy of Inventors (NAI), AIChE and North American Membrane Society. He embodies the intersection of cutting-edge research, impactful innovation, and passionate teaching.

Research Interest:
• Anaerobic Wastewater Treatment
• Downstream Separations in Biotechnology
• Biotransformations

Research Interest:
• Environmental hydraulics
• Urban hydraulics
• Water quality modelling
• Lake and reservoir management
• Environmental remediation

Professor and the current Chair of the Department of Hydraulic and Ocean Engineering at National Cheng Kung University (NCKU) in Tainan, Taiwan. His research focuses on ocean-related hazards such as typhoon waves, freak waves, coastal flooding, storm surges, sea level rise, rip currents, and marine debris.

Research Interest:
• Corrosion studies
• Development of novel corrosion measurement principles

Research Interest:
• Membrane fouling and cleaning
• Rejection of emerging contaminants by pressure driven membranes and developing innovative processes

Research Interest:
• Contaminated Sites (risk analysis, thermal desorption, solid-phase bioremediation)
• Wastewater (steady-state modeling of activated sludge systems, quality and quantity WWTP inflow data)
• Environmental Impact (evaluation of pollutant content)
• Municipal and Industrial Solid Waste (separate collection schemes, agricultural packaging waste, monitoring and mapping of landfill gas emissions)
• Bioenergy (bio-methane potential and digestate characterization for peculiar organic substrates)

Research Interest:
• Snow hydrology
• Remote sensing
• Hydrologic modelling
• Hydroclimatology
• Climate change
• Water resources management and planning

Research Interest:
• Synthesising of organic molecules with architectures optimising optoelectronic performance
• Understanding electronic delocalization between organic chromophores in the solid state

Research Interest:
• The development and application of a wastewater treatment with Fe-C membrane reactor

Research Interest:
• Granular mechanics
• Sea ice Dynamics

Research Interest:
• Inventor of the moving bed biofilm reactor (MBBR)

Research Interest:
• Biological treatment for organic waste
• Landfill for municipal solid waste
• Industrial and hazardous waste treatment
• Municipal and industrial sludge
• Risk assessment

Research Interest:
• Biological and chemical processes for resource mining from wastewaters
• Implements computational thermodynamics and metaomic approaches to reveal their mechanisms
• Fermentation, anaerobic digestion
• Anaerobic ammonium oxidation (Anammox)-based processes

Research Interest:
- Water, Organic Contaminants and Biomarkers
- Reactivity of natural organic matter
- Transformation of micropollutants with various oxidants

Research Interest:
• Micro optical fluidic chip reactor for plasmonic photocatalytic reaction

Research Interest:
• Cold regions hydraulic engineering
• River and sea ice processes
• Transport of pollutants in surface waters
• Mathematical modelling of surface water hydraulics

developing methods to high-throughout identify the toxic chemicals in environment and in human, and evaluating the toxicity of chemicals using organoid models.

Research Interest:
• Thermo-chemical conversion of biomass
• Pollutants migration and transformation
• Biochar-based catalyst production
• CO2 capture
• Biochar derived materials for adsorbent synthesis

researches focus on the modeling and automatic control of water or wastewater treatment processes, and anaerobic digesters. He also develops sensors or analytical techniques to measure trace organic pollutants, which can be used for the purpose of process control

Research Interest:
• Sustainability
• Wastewater treatment
• Groundwater
• Water and Sanitation
• Water supply
• Demography
• Urban Agriculture
• Eco Design

Research Interest:
• NZVI modification
• Various biochar
• Aluminum tolerant bacteria
• Granule sludge
• Rapid formation and stability of microalgal-bacterial granules

Research Interest:
• Accelerated carbonation technology

Research Interest:
• Metal-organic frameworks
• Functional coordination materials
• Hybrid materials

Research Interest:
• The formation and maintenance of cyanobacterial blooms, biodegradation and biogeochemistry in lakes, and sediment remediation and water environment treatment

Research Interest:
• Sulfur cycle-driven biological wastewater treatment (WWT), sludge minimization and granulation in WWT and sulfur conversion-associated heavy metal removal.

Research Interest:
• Biochemical Engineering
• Biomass Energy and Biofuels
• Biorefinery
• Microalgae Biotechnology

Research Interest:
• Green cleaning
• Membranes
• Sensors for fouling and cleaning
• Gas-liquid phase flows
• Non-Newtonian fluids
• Gas separation

Research Interest:
• Motion and mixing in lakes, estuaries and coastal seas in response to both natural and anthropogenic forces
• Coupling of aquatic ecological systems, transport and mixing processes
• Role of aquatic systems in global warming
• Strategies for sustaining functionality of aquatic systems

Research Interest:
• Environmental hydraulics/fluid mechanics
• Water quality modelling
• Flood control
• Environmental management
• Science and technology policy

Research Interest:
• Microbial diversity,
• Bioplastic production, and bioremediation

Research Interest:
• Solid waste treatment
• Resource recycling
• Environmental Management

Research Interest:
• Solid waste treatment
• Resource recycling

Application of nanomaterials and single atom catalysts for water treatment
Advanced Materials-Based Approaches toward Solar Water Disinfection (photochemical and photothermal)
Photocatalytic and electrochemical Processes for Environmental and Energy Application

Currently an associate research fellow in Coastal Ocean Monitoring Center, National Cheng Kung University since 2019, Dr Wu's research interests include remote sensing, ocean engineering, image processing, and wavelet transform.

Research Interest:
• Environment
• Sustainability
• Sustainable Development
• Wastewater Treatment
and more...

Prof Linda Zou's research interests are in the areas of developing nanostructured material incorporated membranes, adsorbents and electrodes for more efficient water purification and desalination technologies and cloud seeding materials.

Research Interest:
• Washoff behaviour
• Forecasting model tree
• Pan evaporation
• Support vector machines

Research Interest:
• Novel ceramic MBR for industrial wastewater reclamation

Research Interest:
• Lifecycle analysis techniques

Research Interest:
• Bioaerosol, Aerosol Technology
• Environmental Microbiology
• Microbiology of the Indoor Environment
• Urban Air Quality

Research Interest:
• Advanced ceramics, ceramics-metal composites
• Innovative fiber reinforced cementitious composites and their applications

Research Interest:
• Environment
• Solid Waste Management
• Waste Treatment
• Waste
• Landfill

Research Interest:
• Heavy metals in the environment: analysis, biogeochemistry, ecotixicology, pollution
• Environmental Chemistry and pollution

Research Interest:
• Environmental fluid mechanics
• Numerical and physical modelling of advection and dispersion phenomena
• Ocean outfall design

Research Interest:
• Biofilm processes
• Nutrient conversion processes and the role of storage polymers in microbial ecology

Research Interest:
• Synthetic Membrane Separation Processes
• Food Process Engineering
• Reduction of Water and Energy consumption in industrial processes
• Fouling and Cleaning of Process Plant

Research Interest:
• Behavior of hazardous pollutants in water
• Risk assessment and management for drinking water
• Water and wastewater treatment technologies & Microbial ecology

Research Interest:
• Catalysis Reaction
• Energy Conversion Process

Research Interest:
• Membrane science and technology
• Desalination, water treatment
• Nanostructured membranes for different separation processes
• Nanocomposites and nanofluids - thermal conductivity and diffusivity
• Water separation technologies: Membrane distillation, forward osmosis, etc.
• Renewable energy applications (solar thermal & photovoltaic energy)

Research Interest:
• Characterisation, testing, management, treatment,
• Landfill re-use and landfilling of waste materials, including IBA & other incineration residues

Research interests:

Environmental engineering

Industrial wastewater treatment
Environmental electrochemistry
Advanced oxidations processes
Technology transfer
Water reuse
Engineering education and pedagogy
Flow and contaminant transport in porous media,
risk assessment of contaminated sites,
environmental modelling, multiphase flow and transport in porous media,
remediation technologies,
soils and the unsaturated zone,
urban water resources.

Research Interest:
• Waste minimization and biological processes for wastewater treatment
• Mainly nutrients removal, emerging contaminants degradation, microalgae processes and process microbiology

Research Interest:
• Characterisation of waste
• Environmental effects of waste treatment and disposal facilities
• Mitigation of landfill gas emissions

Research Interest:
• Magnetic materials and Magnetism
• Recycling
• Circularity

Research Interest:
• Wastewater Treatment

Research Interest:
• Environmental fluid mechanics, mixing and dynamics of rivers, lakes, coastal waters, and estuaries
• Outfalls for wastewater discharge
• Mathematical models of wastewater fate and transport
• Oceanographic field programs and data interpretation

Research Interest:
- control & optimization of complex networked systems
- engineering and economics of green ammonia
- sustainable engery and applications

Research Interest:
• Modelling deep water oil and gas jets/plumes, surface oil spills
• Oil & Gas droplet sizes in water
• Modelling physico-chemical processes that oil undergo in ocean conditions
• Modelling Hydrothermal Vents, CO2 and CH4 hydrates in deepwater
• Oil transport and spread in ice covered waters

Research Interest:
• Computational Hydraulics
• Natural disaster event prediction
• Simulating hydrological & geomorphological processes in rivers & catchments
• Developing real-time flood forecasting and warning systems
• Modelling human, natural & engineering systems for flood risk assessment & integrated catchment management

Research Interest:
• Restoration and reclamation of old landfills
• Sanitary landfills of municipal waste / for special waste
• Landfill gas exploitation plants
• Resource recovery plants

Research Interest:
• Landfills including leachate and gas control
• Anaerobic and aerobic treatment of different kinds of waste, treatment of odorous resp. contaminated off-gases by means of biofilter/bioscrubber
• Treatment of contaminated soil, decentralised waste and waste water treatment
• Alternative biological energy production

Research Interest:
• Biological wastewater treatment and resource recovery,
• Bioenergy production from wastes,
• Value-added chemicals from microalgae

Research Interest:
• Natural hazards including coastal and urban flooding
• Marine Energy
• Water quality and water systems in coastal and urban environment
• Water-energy-food nexus

Research Interest:
• Waste management

Research Interest:
• Waste quality, Water treatment systems
• Advanced water monitoring of micro pollutants

Research Interest:
• Computer Graphic, Image processing

Research Interest:
• Removal of antibiotics from wastewater and resources recovery from waste sludge

Research Interest:
• Wave Energy Converter Devices
• Wave - structure interactions
• Nearshore wave characteristics & coastal processes
• Estimation of Coastal Littoral Drift
Research Interest:
• Phytoremediation/bioremediation of degraded lands (integrated biotechnological approach)
• Wastewaters (Industrial & Domestic) management
• Remediation of soils pollution
• CO2 sequestration & mitigation of climate change using plant-microbe systems
Research Interest:
• Environmental biotechnology and engineering
• Applied microbiology
• Wastewater and water management
• Fate of contaminants in engineered and natural environmental systems.

Stuart Khan is a Professor and Head of School of Civil Engineering, University of Sydney. He is also an Adjunct Professor in the Faculty of Engineering at UNSW and a Hans Fischer Fellow at the Technical University of Munich, Germany. He has received funding for over 40 major competitive research projects from Australian, US and European funding agencies.

Research Interest:
• Optofluid

Research Interest:
• In-situ or ex-situ nutrients removal from landfill leachate in a landfill bioreactor
• Nitrous oxide production from wastewater treatment
• Biodegradation of toxic & recalcitrant organics from industrial wastewater
• Anaerobic digestion of kitchen waste & sludge

Research Interest:
• Optofluidics and analytical chemistry on-chip,
• Seeking new opportunities on MEMS in the areas of Sustainable Environment and Smart-Cities

Research Interest:
• Solid waste management & treatment
• Anaerobic & aerobic digestion, co-digestion
• Waste to energy

Research Interest:
• Sustainable waste management
• Environmental modelling/management
• Life cycle analysis

Research Interest:
• Hydraulics and fluid mechanics
• Applying numerical methods
• Hydraulics of waterways
• Transport phenomena in reservoirs

Research Interest:
• Engineering of real open microbial systems
• Engineering of the diversity & community assembly of microbial communities

Research Interest:
• Solid waste management
• Industrial pollution control engineering
• Life Cycle Assessment of Industrial Processes
• Gasification Technology

Research Interest:
• Air quality monitoring & pollution control
• Sustainable built environment
• Waste to Material / Energy

Research Interest:
• Biodegradation of toxic organic pollutants
• Development of bioremediation agents & application
• Microbial Molecular Ecology / molecule biology
• Applied microbiology

Research Interest:
• Food waste conversion to microbiological greases and fats

• climate change ecology and ecohydrology
• vegetation phenology / plant science
• ecohydrological process and improves hydrological models
• Remote sensing

Research Interest:
• Quantum Optics

Research Interest:
• Water treatment research & technology development

Research Interest:
• Develop various nanomaterials for application in water and waste water

Research Interest:
• Membrane formation & process design
• Pressure-swing adsorption
• Scaling analysis in modelling transport & reaction processes
• Materials processing in low-gravity
• Global climate change
• Self-organization in geophysical systems
• Biomedical engineering

Research Interest:
• Resource recovery from liquid waste streams to enhance excreta treatment
• Sustainable sanitation access in both developed and developing contexts

Research Interest:
• Research on optical coherent detection
• Computational Photonics & optical measurement

Research interest:
- climate change ecology and ecohydrology
- vegetation phenology / plant science
- ecohydrological process and improves hydrological models
- Remote sensing

Research Interest:
• Flame retardant for cotton fabrics/paper

Research Interest:
• Innovative water and wastewater treatment processes
• Emerging micropollutant detection, toxicity and control

focuses on bioinspired sub-nanofluidic membranes for efficient separation, controlled release, biosensing, energy harvesting, and stimuli-responsive ion adsorbents for water desalination and ion extraction

Research Interest:
• Wastewater treatment and resource recovery
• Sludge treatment and disposal
• Microbial fuel cells

Research Interest:
• Molecular biology and evolution
• Microbial genomics and ecology
• Theoretical ecology, metagenomics
• Genomic technologies, as well as array-based bioinformatics

Research Interest:
• Biological & advanced processes for wastewater treatment and reuse