

ACADEMIC TEAM

Power Engineering and Engineering Thermophysics

Prof. BAI Bofeng 白博峰教授



Email: bfbai@mail.xjtu.edu.cn

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Research Interests:

- ✧ Multiphase flow in petroleum engineering
- ✧ Phase change phenomena
- ✧ Microfluidics with bioparticle

Prof. BI Qincheng 毕勤成教授



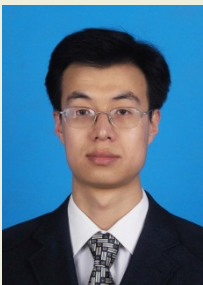
Email: qcbi@mail.xjtu.edu.cn

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Research Interests:

- ✧ Hydrodynamics and heat transfer in boiler
- ✧ Thermal hydraulics of nuclear reactor
- ✧ Multiphase flow and heat transfer

Associate Prof. BI Shengshan 毕胜山副教授



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Research Interests:

- ✧ Thermodynamics and Thermophysical Properties
- ✧ Alternative Working Fluid
- ✧ Nano-refrigerant
- ✧ Heat Pump and Nature Gas Liquefaction Process

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Prof. CAO Feng 曹锋教授

Email: fcao@mail.xjtu.edu.cn

Homepage: <http://gr.xjtu.edu.cn/web/fcao>

Research Interests:

- ✧ Heat pump technologies
- ✧ Thermodynamics of twin screw multiphase pump



Associate Prof. CHONG Daotong 种道彤副教授

Email: dtchong@mail.xjtu.edu.cn

Homepage: <http://gr.xjtu.edu.cn/web/dtchong>

Research Interests:

- ✧ Thermal system diagnosis and energy saving of power plant
- ✧ Steam-water two phase flow
- ✧ Ejector
- ✧ Heat transfer and fluid flow in biomedical process



Prof. ZENG Ke 曾科教授

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Research Interests:

- ✧ Engine electronic control technologies
- ✧ Engine emission reduction technologies
- ✧ Natural gas engine technologies

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Prof. ZENG Min 曾敏教授



Email: zengmin@mail.xjtu.edu.cn

Homepage: <http://gr.xjtu.edu.cn/web/zengmin>

Research Interests:

- ✧ Energy Storage and Utilization
- ✧ Enhanced Heat Transfer and Numerical Heat Transfer
- ✧ Condensation Heat Transfer
- ✧ Heat and Mass Transfer related to Engineering Fields

Prof. CHE Defu 车得福教授



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Research Interests:

- ✧ Boiler and heat exchanger design
- ✧ Multiphase flow and heat transfer
- ✧ Combustion of fossil fuels and pollutant emission control

Prof. CHEN Bin 陈斌教授



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Research Interests:

- ✧ Numerical simulation of multiphase flow and heat transfer
- ✧ Spray cooling
- ✧ Heat transfer in biomedical engineering (laser dermatology, hemodynamics)

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Associate Prof. CHEN Qingyun 陈庆云副教授

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Homepage: <http://gr.xjtu.edu.cn/web/qychen/english-version>

Research Interests:

- ✧ Solar Energy Research
- ✧ Synthesis and Application of Organic-inorganic Hybrid Materials
- ✧ Environmental & Green Catalysis



Academician CHEN Xuejun 陈学俊院士

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Homepage: <http://gr.xjtu.edu.cn/web/mfoffice>

Research Interests:

- ✧ Multiphase flow thermophysics



Prof. DAI Yiping 戴义平教授

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Research Interests:

- ✧ Waste heat recovery
- ✧ Primary frequency regulation of power system
- ✧ Operation optimization and control of power system Steam turbine and gas turbine

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Prof. FAN, Shih-Kang 范士冈教授

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Research Interests:

- ✧ Energy harvesting with microfluidic wearable and flexible devices
- ✧ Heat and mass transfer in biomimetic solar cell, biofuel, fuel cell
- ✧ Digital microfluidics for microplasma, microbubbles, and microdroplets



Prof. FENG Zhenping 丰镇平教授

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Research Interests:

- ✧ Turbomachinery aerothermodynamics and heat transfer
- ✧ CFD and multidisciplinary optimization design for steam and gas turbines
- ✧ R&D on microturbine and turbine with millimeter scale



Associate Prof. FENG Jianmei 冯健美副教授

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Research Interests:

- ✧ Gas Liquid Separation
- ✧ CFD Numerical Simulation in Refrigeration and Compressor systems
- ✧ Scroll Compressor Optimization Design
- ✧ Gas Pulsation and Piping Vibration

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Associate Prof. GAO Ningbo 高宁博副教授



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Research Interests:

- ✧ Solid waste treatment and utilization
- ✧ Biomass thermo-chemical conversion
- ✧ Petroleum contaminated soil remediation

Associate Prof. GAO Tieyu 高铁瑜副教授



Email:sunmoon@mail.xjtu.edu.cn

Research Interests:

- ✧ Two phase flow and heat transfer
- ✧ Ocean thermal energy conversion
- ✧ Flow wet steam humidity measurement
- ✧ Gas turbine cooling technology

Associate Prof. GAO Zhongquan 高忠权副教授



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Research Interests:

- ✧ Internal combustion engine
- ✧ Online survey using ion current
- ✧ Resource utilization of solid waste

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Prof. GUO Liejin 郭烈锦教授

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Homepage:<http://gr.xjtu.edu.cn/web/lj-guo>

Research Interests:

- ✧ Multiphase flow and heat mass transfer
- ✧ Solar thermal utilization
- ✧ Hydrogen production from solar and biomass



Prof. Gunnar Westin 教授

Research Interests:

- ✧ Solar energy conversion
- ✧ Inorganic chemistry and materials



Prof. HE Maogang 何茂刚教授

Email:mghe@mail.xjtu.edu.cn

Homepage:<http://gr.xjtu.edu.cn/web/mghe>

Research Interests:

- ✧ Engineering thermophysics
- ✧ Thermophysical property of fluid
- ✧ Thermodynamic cycle

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Academician HE Yaling 何雅玲院士



Email: yalinghe@mail.xjtu.edu.cn

Homepage: <http://gr.xjtu.edu.cn/web/yalinghe>

Research Interests:

- ✧ The principles of numerical predictions of heat transfer and fluid flow processes and the related efficient numerical methods
- ✧ Renewable energy and fuel cells.
- ✧ Heat Transfer Enhancement and High efficient heat exchangers
- ✧ Micro/nano scale heat and mass transfer

Associate Prof. HE Zhilong 何志龙副教授



Email: zlhe@mail.xjtu.edu.cn

Homepage: <http://gr.xjtu.edu.cn/web/compressor>

Research Interests:

- ✧ Simulation of thermodynamics of compressor and refrigeration system
- ✧ Vibration and noise research of compressor
- ✧ Automatic control and remote monitor techniques

Prof. HOU Yu 侯予教授



Email: yuhou@mail.xjtu.edu.cn

Homepage: <http://gr.xjtu.edu.cn/web/yuhou>

Research Interests:

- ✧ Cryogenic refrigeration technology and cryogenic machinery
- ✧ Cryogenic multi-phase flow, heat transfer and thermal insulation
- ✧ Cryogenic mechanics and thermodynamics
- ✧ Novel refrigeration technology

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Associate Prof. HU Erjiang 胡二江副教授

Email: hujiang@mail.xjtu.edu.cn

Research Interests:

- ✧ Alternative fuels of internal combustion engines
- ✧ Laminar flame dynamics
- ✧ Chemical kinetics
- ✧ Engine combustion and emissions



Associate Prof. HUANG Dong 黄东副教授

Email: d_huang@mail.xjtu.edu.cn

Research Interests:

- ✧ frosting and defrosting performance of air-source heat pump
- ✧ tube arrangement optimization of finned tube heat exchanger
- ✧ energy saving of frost-free refrigerator



Associate Prof. HUANG Jianbing 黄建兵副教授

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Research Interests:

- ✧ Intermediate temperature fuel cell technology
- ✧ Solid state ionics and nanocomposite energy materials
- ✧ Electroceramic reactor for energy conversion & utilization
- ✧ Hydrothermal Gasification of Biomass for Hydrogen Production

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Associate Prof. HUANG Yongcheng 黄勇成副教授

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Homepage: <http://gr.xjtu.edu.cn/web/huangyc>

Research Interests:

- ✧ Combustion and emission of alternative fuels in IC engine
- ✧ Spray and atomization
- ✧ Numerical simulation for combustion process in IC engine



Prof. HUANG Zuohua 黄佐华教授

Email: zhhuang@mail.xjtu.edu.cn

Homepage: <http://gr.xjtu.edu.cn/web/zhhuang>

Research Interests:

- ✧ Premixed and turbulent combustion
- ✧ Laminar flames and flame diagnostics
- ✧ Spray and atomization
- ✧ Engine combustion and emission control
- ✧ Ignition and chemical kinetics



Prof. HUI Shi'en 惠世恩教授

Email: sehui@mail.xjtu.edu.cn

Homepage: <http://gr.xjtu.edu.cn/web/sehui>

Research Interests:

- ✧ Energy environment engineering
- ✧ Combustion and gas-solid two phase flow
- ✧ Clean utilization of coal & pollution prevention and control

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Prof. JING Dengwei 敬登伟青拔

Email: dwjing@mail.xjtu.edu.cn

Research Interests:

- ✧ Solar energy conversion and utilization
- ✧ Modeling and design of solar reactors
- ✧ Materials for energy conversion



Prof. Lionel Vayssieres 昂内尔·维西尔维教授

Email: lionelv@xjtu.edu.cn

Homepage: <http://ircr.xjtu.edu.cn/people.html>

Research Interests:

- ✧ Nanoscience & Nanotechnology
- ✧ Aqueous Inorganic and Materials Chemistry
- ✧ Surface Science



Prof. LI Guojun 李国君教授

Email: liguojun@mail.xjtu.edu.cn

Homepage: <http://gr.xjtu.edu.cn/web/liguojun>

Research Interests:

- ✧ Thermodynamics of turbomachinery
- ✧ Two-phase flow and turbulence of turbomachinery
- ✧ Solid oxide fuel cell and gas turbine hybrid system

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Prof. LI Huixiong 李会雄教授



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Research Interests:

- ✧ Multiphase flow and heat transfer
- ✧ Numerical simulation of gas-liquid two-phase flows
- ✧ Oil-gas-water multiphase flow measurement

Prof. LI Jingyin 李景银教授



Email: jyli@mail.xjtu.edu.cn

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Research Interests:

- ✧ Aerodynamics and Heat Transfer in Turbomachinery
- ✧ Drop Dynamics and its Applications in Fluid Machinery
- ✧ Wind turbine and Solar Chimney

Prof. LI Jun 李军教授



Email: junli@mail.xjtu.edu.cn

Homepage: <http://gr.xjtu.edu.cn/web/junli>

Research Interests:

- ✧ Aerodynamics and Optimization Design of Turbomachinery Blade
- ✧ Research and Development of Turbomachinery Seal

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Associate Prof. LI Liangxing 李良星副教授

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Homepage:<http://gr.xjtu.edu.cn/web/liangxing.li>

Research Interests:

- ✧ Multiphase flow and heat transfer
- ✧ Nuclear Power Safety and thermal-hydraulic
- ✧ Transport phenomenon in porous media



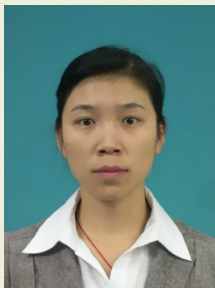
Associate Prof. LI Liang 李亮副教授

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Homepage:<http://gr.xjtu.edu.cn:8080/web/liliang>

Research Interests:

- ✧ Aerothermodynamics of turbomachinery
- ✧ Wet steam and moist air two-phase flows
- ✧ Optimization of steam turbine and gas turbine



Associate Prof. LI Na 李娜副教授

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Research Interests:

- ✧ Combustion and multi-phase flow
- ✧ Clean utilization of coal
- ✧ Pollution prevention and control

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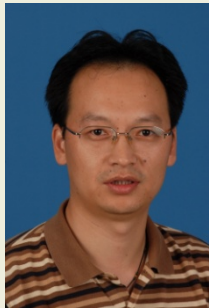
Prof. LI Yinshi 李印实青拔

Email:ysli@mail.xjtu.edu.cn

Homepage:<http://gr.xjtu.edu.cn/web/ysli>

Research Interests:

- ✧ Solar energy and fuel cell
- ✧ Energy conversion & storage
- ✧ Micro/Nanoscale heat & mass transfer



Prof. LI Zengyao 李增耀教授

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Research Interests:

- ✧ Computational Fluid Dynamics and Numerical Heat transfer
- ✧ Plasma Heat Transfer: Multiscale and Multiphysical Transport phenomena
- ✧ Laser and E-Beam Heating
- ✧ Solar thermal energy
- ✧ Thermal control and management



Prof. LI Yanzhong 厉彦忠教授

Email:yzli-epe@mail.xjtu.edu.cn

Research Interests:

- ✧ Thermodynamic cycle and thermophysical process of refrigeration and cryogenic systems
- ✧ Flow and heat transfer of refrigeration and cryogenic fluid
- ✧ Cryogenic heat exchanger enhancement
- ✧ Cold energy recovery of Liquefied Natural Gas

ACADEMIC TEAM

Associate Prof. LIANG Jidong 梁继东副教授



Email: jidongl@mail.xjtu.edu.cn

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Research Interests:

- ✧ Biodegradation and biotransformation of organic contaminant
- ✧ Environmental remediation technology
- ✧ Industrial water saving and wastewater treatment
- ✧ Anaerobic biotechnology of organic wastewater/waste treatment

Academician LIN Zonghu 林宗虎院士



Email: zh-lin@mail.xjtu.edu.cn

Homepage: <http://gr.xjtu.edu.cn/web/zh-lin>

Research Interests:

- ✧ Thermal energy engineering
- ✧ Two-phase flow and heat transfer

Associate Prof. LIU Haihu 刘海湖青拔



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Homepage: <http://gr.xjtu.edu.cn/web/haihu.liu>

Research Interests:

- ✧ Complex fluid flows in porous media
- ✧ Droplet-based microfluidics
- ✧ Multiphase flows and heat transfer
- ✧ CO₂ sequestration, oil and gas recovery

ACADEMIC TEAM

Prof. LIU Hongtan 刘洪潭教授



Homepage: <http://www.coe.miami.edu/faculty-directory/name/hongtan-liu/>

Research Interests:

- ✧ Heat mass transfer
- ✧ PEM fuel cells and DMFCs
- ✧ Fluid dynamics Modeling
- ✧ Multi-dimensional computational and modeling and experimentally study

Prof. LIU Jiping 刘继平教授



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Research Interests:

- ✧ Energy balance in thermal system
- ✧ Steam-water two phase flow and direct contact condensation
- ✧ Enhanced heat transfer, numerical heat transfer and thermoacoustic convection

Prof. LIU Lei 刘磊教授



Email: rliu@mail.xjtu.edu.cn

Research Interests:

- ✧ Multiphase Flow in Petroleum Engineering
- ✧ Multiphase Flow Measurement
- ✧ Drag Reduction of Multiphase Flow

ACADEMIC TEAM

Prof. LIU Lijun 刘立军教授



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Homepage:<http://gr.xjtu.edu.cn/web/ljliu>

Research Interests:

- ✧ Computational fluid dynamics and numerical heat transfer
- ✧ Technologies and process modeling in crystal growth and solidification
- ✧ Solar cell materials and photovoltaic technologies
- ✧ Optimal design and fluid dynamics in fluid machinery

Prof. LIU Shenghua 刘圣华教授



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Research Interests:

- ✧ New energy vehicles
- ✧ Alternative fuels, engine combustion, emissions and their control
- ✧ Non-regulated emissions measurement and control

Prof. LIU Xiaomin 刘小民教授



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Research Interests:

- ✧ Topology Optimization of Fluid Flow Structures
- ✧ Utilization for Renewable Geothermal Heat Energy
- ✧ Bionic Design of Energy-Saving and Noise-Reduction and Anti-Adhesion for Fluid Machinery

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Associate Prof. LIU Yinhe 刘银河副教授



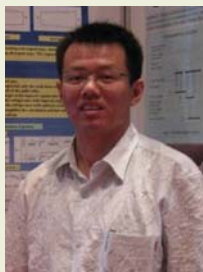
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Research Interests:

- ✧ Coal gasification and combustion
- ✧ Optical diagnostics of particle combustion
- ✧ Combustion of low concentration gases and its safety
- ✧ Two-phase flow and heat transfer
- ✧ System design and analysis of advanced power cycles

Prof. Liu Yingwen 刘迎文教授



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Research Interests:

- ✧ Optimization research of thermal system (cryocooler, Mobile Air-Conditioner and thermoacoustic engine, etc.)
- ✧ Enhanced heat transfer and its industrial application
- ✧ Thermodynamic analysis of thermal system

Associate Prof. MAO Yijun 毛义军副教授



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Research Interests:

- ✧ Aerodynamics and aeroacoustics of Fluid machinery

ACADEMIC TEAM

Prof. LU Tianjian 卢天健教授



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Research Interests:

- ✧ Biomechanics and bioengineering
 - ✧ Active materials, metal materials, soft matter
 - ✧ Multifunctional porous materials and structures; design, fabrication and characterization
 - ✧ Mechanics of materials
 - ✧ Fracture, creep and fatigue
 - ✧ Heat transfer and thermal management
 - ✧ Vibroacoustics and noise control
-

Prof. LV Youjun 吕友军青拔



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Homepage: <http://gr.xjtu.edu.cn:8080/web/yjlu>

Research Interests:

- ✧ Solar Hydrogen Production, Solar thermal Utilization
 - ✧ Biomass Gasification in Supercritical Water
 - ✧ Multiphase Flow, Heat and Mass Transfer
-

Associate Prof. MENG Xianyang 孟现阳副教授



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Research Interests:

- ✧ Thermophysical Properties of Fluids: measurement and modeling
- ✧ New Working Fluids: Refrigerant, Alternative Fuels, Coolant, ORC working fluid
- ✧ Hydrodynamic Instabilities in liquid-liquid system
- ✧ The simulation and optimization of liquefaction process of Natural Gas

ACADEMIC TEAM



Prof. PENG Xueyuan 彭学院教授

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Research Interests:

- ✧ Compressor and expander technology for transcritical CO₂ refrigeration
- ✧ Oil field gas recovery technology
- ✧ Fault diagnosis and condition monitoring in compressor system



Associate Prof. PU Liang 蒲亮副教授

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Homepage: <http://gr.xjtu.edu.cn/web/puliang>

Research Interests:

- ✧ Performance optimization of heat pump system with PCM material
- ✧ Simulation study on the flow field and the temperature and humidity distribution
- ✧ Heat transfer and flow characteristics on the storage and transportation processes of cryogenic liquid



Prof. QIN Guoliang 秦国良教授

Email: glqin@mail.xjtu.edu.cn

Homepage: <http://gr.xjtu.edu.cn/web/glqin>

Research Interests:

- ✧ High accuracy simulation of fluid flow
- ✧ Computational aeroacoustics
- ✧ Optimization design of fluid machinery

ACADEMIC TEAM

Prof. QU Zhiguo 屈治国教授



Email:zgqu@mail.xjtu.edu.cn

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Research Interests:

- ✧ Thermal management of energy system
- ✧ Phase change heat transfer
- ✧ Transport phenomena in porous media
- ✧ Mass transfer for CO₂ absorption
- ✧ Biophysics



Prof. Sanjay Mathur 教授

Research Interests:

- ✧ Nanoscience& Nanotechnology
- ✧ Aqueous Inorganic and Materials Chemistry
- ✧ Surface Science



Prof. Samuel S Mao 教授

Research Interests:

- ✧ Renewable energy conversion
- ✧ Heat transfer
- ✧ Materials and catalysis

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Prof. SHEN Shaohua 沈少华教授

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Research Interests:

- ✧ Solar water splitting and CO₂ reduction
- ✧ Photocatalysis and electrocatalysis
- ✧ Nanostructures and nanomaterials



Prof. SHEN Zhenxing 沈振兴教授

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Research Interests:

- ✧ Atmospheric Environment and Atmospheric Chemistry.
- ✧ Aerosol and air quality
- ✧ Air pollution control



Associate Prof. SONG Liming 宋立明副教授

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Research Interests:

- ✧ Multi-objective and Multidisciplinary Design Optimization Theory and Methodology for Turbomachinery
- ✧ Multidisciplinary Analysis of High Temperature Blades of Gas Turbine based on Design Knowledge Mining and Uncertainty Analysis
- ✧ Aerodynamic Inverse Design and Optimization of Turbine Blades based on Control Theory

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Prof. SUN Jinju 孙金菊教授

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Research Interests:

- ✧ Low-grade industrial waste energy recovery
- ✧ Turbomachinery flow and optimal design
- ✧ Computational fluid dynamics method



Associate Prof. SUN Zhongguo 孙中国副教授

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Homepage: <http://gr.xjtu.edu.cn/web/xjtuszg>

Research Interests:

- ✧ CFD based on meshless methods
- ✧ Energy storage system and technology
- ✧ Micro fluid machinery and engineering



Prof. TAN Houzhang 谭厚章教授

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Research Interests:

- ✧ Emission control of combustion
- ✧ Biomass thermal chemistry utilization
- ✧ Optimization of coal combustion in power plant

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Associate Prof. TANG Chenglong 汤成龙副教授

Email:chenglongtang@mail.xjtu.edu.cn

Research Interests:

- ✧ Combustion chemistry and aerodynamics of laminar flames
- ✧ Droplet dynamics and spray characterization
- ✧ New concept combustion in propulsion and power system



Prof. TANG Guihua 唐桂华教授

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Homepage:<http://gr.xjtu.edu.cn/web/ghtang>

Research Interests:

- ✧ Heat design, management, and enhancement
- ✧ Condensation and droplets
- ✧ Microscale and nanoscale fluid flow and heat transfer
- ✧ Thermoelectrics and solar energy
- ✧ Lattice Boltzmann method



Academician TAO Wenquan 陶文铨院士

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Homepage:<http://gr.xjtu.edu.cn/web/wqtao>

Research Interests:

- ✧ Advanced computational methods in fluid flow and heat transfer
- ✧ Heat transfer enhancement
- ✧ Multiscale simulations of problems in energy and environmental engineering

ACADEMIC TEAM



Associate Prof. TAO Yubing 陶于兵副教授

Email: yubingtao@mail.xjtu.edu.cn

Research Interests:

- ✧ Thermal energy storage
- ✧ solar thermal utilization
- ✧ Heat transfer enhancement



Associate Prof. WANG Ying 汪映副教授

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Research Interests:

- ✧ advanced combustion
- ✧ clean alternative fuels
- ✧ combustion and emission control in internal combustion engine



Prof. WANG Dong 王栋教授

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Homepage: <http://gr.xjtu.edu.cn/web/wangdong>

Research Interests:

- ✧ Measurement of multiphase flow
- ✧ Boiler technique
- ✧ Renewable energy

ACADEMIC TEAM



Prof. WANG Guoxiang 王国祥教授

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Research Interests:

- ✧ materials science and engineering
- ✧ mechanical processing
- ✧ biological fluid mechanics and heat transfer



Prof. WANG Haijun 王海军教授

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Research Interests:

- ✧ Multiphase flow and heat transfer
- ✧ Supercritical pressure fluid flow with heat transfer
- ✧ Heat transfer enhancement



Prof. WANG Huanran 王焕然教授

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Research Interests:

- ✧ Compressed-air energy-storage
- ✧ High-speed water entry and Related Problems, especially transient Characteristics of Water Entry
- ✧ Bubble hydrodynamics and its applications

ACADEMIC TEAM



Associate Prof. WANG Jiangfeng 王江峰副教授

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Research Interests:

- ✧ Low-grade heat source conversion — Organic Rankine cycle, Kalina cycle, CO₂ power cycle
- ✧ Renewable energy — Solar thermal power generation, Geothermal power generation
- ✧ Distributed energy system



Associate Prof. WANG Jinhua 王金华副教授

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Research Interests:

- ✧ Turbulent combustion – experiment and simulation
- ✧ Plasma/Electric assisted combustion
- ✧ Combustion laser diagnostic and analysis



Prof. WANG Qiuwang 王秋旺教授

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Research Interests:

- ✧ Heat Transfer Enhancement and Its Applications to Engineering Problems
- ✧ Heat Transfer under Extreme Conditions
- ✧ Transport Phenomena in Porous Media
- ✧ Numerical Simulation, Prediction & Optimization

ACADEMIC TEAM

Prof. WANG Shuzhong 王树众教授



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Research Interests:

- ✧ Multiphase flow and Heat transfer
- ✧ Supercritical Water Oxidation/Gasification
- ✧ Frontier Combustion Technologies
- ✧ New Energy and Energy-Saving Technologies
- ✧ Sustainable Intelligent Energy System

Associate Prof. Wang Xibin 王锡斌副教授



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Research Interests:

- ✧ Performance and Emission of IC engine
- ✧ Clean Alternative Fuels
- ✧ Numerical Simulation of IC engine

Associate Prof. WANG Xiaopo 王晓坡副教授



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Research Interests:

- ✧ Thermophysical Properties of Fluids
- ✧ Alternative Refrigerants
- ✧ Refrigeration cycle and system optimization

ACADEMIC TEAM

Prof. WANG Yuan 王元教授



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Research Interests:

- ✧ Theory and techniques of environmental simulation
- ✧ Wind-drift sand dynamics and two-phase turbulent flow
- ✧ Micro-fluidics and Bio-MEMS

Prof. WANG Yueshe 王跃社教授



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Research Interests:

- ✧ Gas-liquid/Steam-water Two-phase Flow and Heat Transfer
- ✧ New Energy and Solar Energy High-efficient Thermal Utilization
- ✧ Tower Solar Power Technology
- ✧ Multiphase Flow and Measurement Technology in Gas-oil Transport and Storage Industry.
- ✧ Flow and Heat Transfer in the Manufacturing Process of Metal Foam Materials

Prof. WANG Yunhai 王云海教授



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Homepage: <http://gr.xjtu.edu.cn/web/guest/home>

Research Interests:

- ✧ Advance oxidation process
- ✧ Bioelectrochemical systems for wastewater treatment
- ✧ Fuelcell technology

ACADEMIC TEAM

Prof. WEI Jinjia 魏进家教授



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Research Interests:

- ✧ Solar Thermal Power
- ✧ Surfactant Drag Reduction and Rheology
- ✧ Enhancement of Boiling Heat Transfer
- ✧ Multiphase Flow and Non-Newtonian Fluid Flow
- ✧ CFD (Computational Fluid Dynamics), BDS (Brownian Dynamics Simulation)

Associate Prof. WEI Yanju 魏衍举副教授



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Research Interests:

- ✧ Alternative fuels, engine combustion, emissions and their control
- ✧ Non-regulated emissions measurement and control
- ✧ Combustion mechanism of fuel droplets
- ✧ Turbulent combustion process of fuel spray

Associate Prof. WEN Jian 文键副教授



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Research Interests:

- ✧ Thermophysical process of cryogenic systems
- ✧ Heat transfer enhancement of cryogenic heat exchangers
- ✧ Thermal performance of liquid-gas or solid-gas two-phaseflow in complex passages

ACADEMIC TEAM

Associate Prof. WEN Suping 闻苏平副教授



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Homepage: <http://gr.xjtu.edu.cn:8080/web/spwen>

Research Interests:

- ✧ Optimization design of high performance fluid machinery
 - ✧ Computational Fluid Mechanics of complex turbulent flows in fluid machinery and fluid Engineering
 - ✧ Modern laser measure technology and application in fluid machinery
 - ✧ Turbulent boundary layer flow structure and drag reduction
-

Prof. Wu Dongyin 吴东垠教授



Email: dongyinwu@mail.xjtu.edu.cn

Homepage: <http://gr.xjtu.edu.cn/web/dongyinwu>

Research Interests:

- ✧ Gas-liquid two-phase flow and heat transfer
 - ✧ Rheology and atomization characteristics of liquid fuel
 - ✧ Wind power generation
 - ✧ Operation diagnosis of power station boiler
-

Prof. WU Jianhua 吴建华教授



Email: jhwu@mail.xjtu.edu.cn

Research Interests:

- ✧ Research of HC compressors and refrigerating system of air conditioners
- ✧ Research of compressors and systems using HFC refrigerant with low GWP
- ✧ Research of CO2 compressors and heat pump water heaters
- ✧ Numerical analysis of thermodynamic processes, dynamics, gas valves, gas pulsations, lubricating oil film of bearings, flow fields, heat transfer and OCR of compressors

ACADEMIC TEAM



Prof. WU Jiangtao 吴江涛教授

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Research Interests:

- ✧ Thermodynamics
- ✧ Molecular simulation of fluids
- ✧ Thermophysical properties of Fluids
- ✧ Alternative refrigerants and clean fuels



Associate Prof. WU Weifeng 吴伟烽副教授

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Research Interests:

- ✧ Profile and performance optimization of single screw compressors
- ✧ ORC systems with single screw expander
- ✧ New technologies for displacement compressors



Prof. XI Guang 席光教授

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Research Interests:

- ✧ Computational fluid dynamics method
- ✧ Turbomachinery design optimization
- ✧ Micro-turbine and Centrifugal compressor

ACADEMIC TEAM

Prof. XIE Yonghui 谢永慧教授



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Research Interests:

- ✧ Dynamic analysis of turbomachinery
- ✧ Two-phase flow and liquid erosion in steam turbine
- ✧ Micro gas turbine and distributed power supply

Prof. XING Ziwen 邢子文教授



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Research Interests:

- ✧ Profile and performance optimization of twin screw compressors
- ✧ CO₂ heat pumps and refrigeration systems
- ✧ ORC systems with twin screw expander

Associate Prof. XU Donghai 徐东海副教授



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Research Interests:

- ✧ new energy technologies
- ✧ Supercritical water treatment technologies
- ✧ Combustion pollutants control
- ✧ Multi-phase flow and mass and heat transfer

ACADEMIC TEAM

Academician XU Jianzhong 徐建中院士



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Research Interests:

- ✧ Fluid dynamics and heat transfer of turbomachinery
- ✧ Computational fluid dynamics, multiphase flow
- ✧ Micro engines
- ✧ Distributed energy system
- ✧ Wind turbine

Prof. YAN Wei 延卫教授



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Research Interests:

- ✧ Environmental chemistry & materials
- ✧ Nano materials
- ✧ Conducting polymer
- ✧ Wastewater treatment

Prof. YAN Junjie 严俊杰教授



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Research Interests:

- ✧ Simulation and optimization of thermal system
- ✧ Steam-water two phase flow/phase change heat transfer
- ✧ Cogeneration of cooling, heating and power

ACADEMIC TEAM

Associate Prof. YAN Gang 晏刚副教授



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Research Interests:

- ✧ Refrigeration and Cryogenic thermodynamics
- ✧ Novel environmental-friendly refrigerant and mixture refrigerant
- ✧ Efficient energy machinery
- ✧ Novel refrigeration technology

Associate Prof. YAN Xin 晏鑫副教授



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Research Interests:

- ✧ Turbomachinery aerodynamics and heat transfer
- ✧ CFD solver development and applications
- ✧ Turbomachinery seal technology

Prof. YANG Dong 杨冬教授



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Research Interests:

- ✧ Multiphase flow and heat transfer
- ✧ Thermal-hydraulic analysis of supercritical pressure boiler
- ✧ Optimization of large-capacity thermal power plant operation
- ✧ Thermodynamic system in solar thermal power plant
- ✧ Compact heat exchanger design and development

ACADEMIC TEAM



Associate Prof. YANG Honghui 杨鸿辉副教授

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Research Interests:

- ✧ Environmental microbiology, molecular microbiology
- ✧ Fenton like catalysts
- ✧ Advanced treatment of wastewater



Associate Prof. YANG Jian 杨剑副教授

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Research Interests:

- ✧ Heat transfer enhancement
- ✧ Heat and mass transfer in porous media
- ✧ Numerical simulation for fluid flow and heat transfer



Associate Prof. YANG Weiwei 杨卫卫副教授

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Research Interests:

- ✧ Fuel cells
- ✧ Multiphase flow and heat transfer
- ✧ Heat transfer enhancement

ACADEMIC TEAM

Associate Prof. YU Xiaoling 余小玲副教授



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Research Interests:

- ✧ Heat transfer and flow in refrigeration or heat pump system
- ✧ Flow and stress in compressors
- ✧ Electronics cooling

Prof. YU Jianlin 鱼剑琳教授



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Research Interests:

- ✧ Energy-saving technology in refrigeration
- ✧ Heat pump
- ✧ solar refrigeration and Thermoelectric refrigeration

Prof. YUAN Qi 袁奇教授



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Research Interests:

- ✧ Fracture mechanics and fatigue life analysis for turbomachinery
- ✧ Stability and reliability analysis of wind turbine
- ✧ Bio-fluid application

ACADEMIC TEAM

Prof. ZHANG Chuhua 张楚华教授



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Research Interests:

- ✧ Fluid machinery design methods and engineering applications
- ✧ High performance computational fluid dynamics
- ✧ Biology fluid flow

Prof. ZHANG Di 张荻教授



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Research Interests:

- ✧ Dynamic Analysis of Turbomachinery Components
- ✧ Two-phase Flow and Liquid Erosion in Steam Turbine

Prof. ZHANG Jiazhong 张家忠教授



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Research Interests:

- ✧ Nonlinear aeroelastic stability and flow control
- ✧ Application of nonlinear dynamics
- ✧ Spatiotemporal pattern formation for the complex fluid mechanics

ACADEMIC TEAM

Associate Prof. ZHANG Jianfei 张剑飞副教授



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Homepage: <http://gr.xjtu.edu.cn/web/zhangjf>

Research Interests:

- ✧ Heat Transfer Enhancement
- ✧ Numerical Heat Transfer
- ✧ Thermofluid Issues in Engineering Field
- ✧ Compact Thermal Management Devices

Prof. ZHANG Xiongwen 张兄文青拔



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Research Interests:

- ✧ Fuel cells
- ✧ Modeling & analysis for distributed energy resources (DERs)
- ✧ Batteries/electric vehicle (EV)
- ✧ Smart grid /microgrid

Prof. ZHANG Yuwen 张玉文教授



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Research Interests:

- ✧ Micro- and Nanoscale Heat Transfer
- ✧ Multiscale Transport Phenomena in Multiphase Systems
- ✧ Sustainable and Renewable Energy

ACADEMIC TEAM



Prof. ZHAO Liang 赵亮教授

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Homepage: <http://gr.xjtu.edu.cn/web/lzhao>

Research Interests:

- ✧ Multiphase Flow & Heat Transfer
- ✧ Solar Thermal Engineering
- ✧ Hydrogen Energy Production and Application



Prof. ZHAO Qinxin 赵钦新教授

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Homepage: <http://gr.xjtu.edu.cn/web/zhaoqx>

Research Interests:

- ✧ Thermal energy engineering
- ✧ Environmental behaviors of materials
- ✧ Gas-solid multiphase Flow and combustion
- ✧ Pollutants Removal and Regeneration Technology



Prof. ZHAO Xiaoming 赵小明教授

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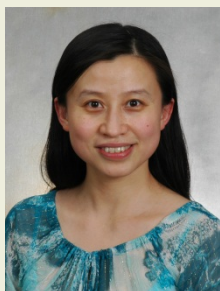
Homepage: <http://gr.xjtu.edu.cn/web/xmzhao>

Research Interests:

- ✧ Thermophysical properties of fluids and solids
- ✧ Properties of alternative refrigerants and refrigerant cycle
- ✧ Energy system and its thermodynamical analyse
- ✧ Thermal measurement

ACADEMIC TEAM

Associate Prof. ZHENG Chunli 郑春莉副教授



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Homepage: <http://gr.xjtu.edu.cn/web/clzheng>

Research Interests:

- ✧ Sorption/desorption of organic pollutants in soil
- ✧ Biodegradation technology of organic pollutants
- ✧ Synthesis of functional materials
- ✧ Reclaim of heavy metals from soil and underground water

Prof. ZHOU Qulan 周屈兰教授



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Research Interests:

- ✧ Combustion and gas clean of fossil fuel
- ✧ Energy absorption systems based on nano-fluidics technologies
- ✧ Nonlinear mathematics modeling and simulation

Nuclear Science and Technology

Prof. CAO Liangzhi 曹良志教授



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Research Interests:

- ✧ Reactor Physics Computational Methods
- ✧ Advanced Reactor Concept Design
- ✧ High Level Waste Management
- ✧ Reactor Physics Software Development

ACADEMIC TEAM

Prof. OTAKE Yoshie 大竹淑惠教授



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Homepage: http://www.riken.jp/en/research/labs/rap/adv_photon/neutr_beam/

Research Interests:

- ✧ Research and development for accelerator-driven compact neutron sources towards practical use
 - ✧ Neutron optics, imaging and diffraction experiments
 - ✧ Research on neutron EDM
 - ✧ Fundamental quantum physics
-

Associate Prof. GOU Junli 苟军利副教授



Email: junligou@mail.xjtu.edu.cn

Homepage: <http://gr.xjtu.edu.cn:8080/web/junligou>

Research Interests:

- ✧ Reactor thermalhydraulics and safety analysis
 - ✧ Advanced nuclear system design
 - ✧ Subchannel and safety analysis code development
-

Prof. HE Chaohui 贺朝会教授



Email: hechaohui@mail.xjtu.edu.cn;

Homepage: <http://gr.xjtu.edu.cn/web/hechaohui>; <http://nt.xjtu.edu.cn/>

Research Interests:

- ✧ Radiation effects in materials, electronic devices, integrated circuits and systems
- ✧ Application of accelerator mass spectrometry
- ✧ Nuclear Radiation Measurement

ACADEMIC TEAM

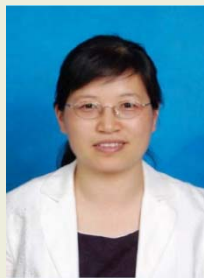


Prof. HU Huasi 胡华四教授

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Research Interests:

- ✧ Experimental nuclear physics
 - ✧ Nuclear technology and applications
 - ✧ Radiometry and radiation protection
-

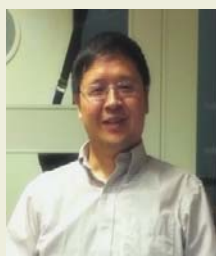


Associate Prof. LIU Shuhuan 刘书焕副教授

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Research Interests:

- ✧ Nuclear electronics & Radiation detection
 - ✧ Designs on semiconductor array detector and front-end readout ASIC
 - ✧ Microdosimetry, nanodosimetry & radiation protection
 - ✧ Radiation effects on semiconductor materials, devices and IC
-



Prof. MA Weimin 马卫民教授

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Research Interests:

- ✧ Two-phase flow and boiling heat transfer
 - ✧ Computational fluid dynamics
 - ✧ Nuclear safety
-



Prof. OUYANG Xiaoping 欧阳小平教授

Research Interests:

- ✧ Radiation Detection
- ✧ Nuclear Technology Application

ACADEMIC TEAM



Prof. QIU Suizheng 秋穗正教授

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Research Interests:

- ✧ Fluid dynamics and heat transfer
 - ✧ Safety analysis on the nuclear power systems
 - ✧ Thermal-hydraulics of in Narrow channels
 - ✧ Nuclear reactor and system
-



Prof. SU Guanghui 苏光辉教授

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Research Interests:

- ✧ Two-phase flow and boiling heat transfer
 - ✧ Nuclear reactor thermal-hydraulics analysis
-



Associate Prof. ZHAO Yaolin 赵耀林副教授

Email: zhaoyaolin@mail.xjtu.edu.cn

Research Interests:

- ✧ Diffusion of radionuclide in clay and clay rock
- ✧ Adsorption of radionuclide on Solid-Water Interface
- ✧ Accelerator-based mass spectrometric analysis

ACADEMIC TEAM



Prof. SHAN Jianqiang 单建强教授

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Homepage:<http://gr.xjtu.edu.cn/web/jqshan>

Research Interests:

- ✧ Safety and thermalhydraulics analysis of nuclear reactors



Prof. TIAN Wenxi 田文喜教授

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Homepage:<http://gr.xjtu.edu.cn/web/wxtian>

Research Interests:

- ✧ Nuclear reactor thermal-hydraulic and safety analysis
- ✧ Development of thermal-hydraulic and safety analysis code of nuclear reactor
- ✧ Design, safety evaluation of advanced nuclear reactors
- ✧ CFD and advanced numerical method application, particle method



Prof. WANG Sheng 王盛青拔

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Research Interests:

- ✧ Compact accelerator neutron source development
- ✧ Neutron radiography, nondestructive testing and diagnosis system
- ✧ Radiation protection technology
- ✧ CAD/CAE/CAM/CAT integrated system
- ✧ Nuclear physics simulation system

ACADEMIC TEAM



Academician WANG Yifang 王贻芳院士

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Homepage: http://nt.xjtu.edu.cn/news_content.php?id=498

Research Interests:

- ✧ Particle (Nuclear) Detectors
- ✧ Particle Physics Experiments



Prof. WU Hongchun 吴宏春教授

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Research Interests:

- ✧ Nuclear reactor coredesign and analysis
- ✧ Numerical methods of neutron transport theory
- ✧ Fuel management and optimization



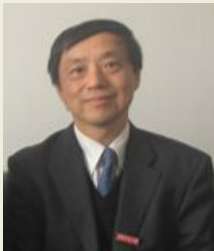
Associate Prof. WU Yingwei 巫英伟副教授

Email: wyw810@mail.xjtu.edu.cn

Research Interests:

- ✧ Nuclear reactor thermal-hydraulic basic experimental research
- ✧ Nuclear reactor thermal safety analysis software development and application
- ✧ Advanced nuclear fuel performance analysis

ACADEMIC TEAM



Prof. Hideyuki Sunaga 须长秀行教授

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Homepage:<https://vcad-hpsv.riken.jp/en/research/outline/member/SS702/>

Research Interests:

- ✧ Irradiation performance of materials
 - ✧ Neutron and X-ray nondestructive testing, diagnostic technology
 - ✧ CAD/CAE/CAM integrated system
-



Prof. YANG Baowen 杨保文教授

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Homepage:<http://gr.xjtu.edu.cn/web/bao-wen>

Research Interests:

- ✧ thermal-hydraulics and nuclear safety
 - ✧ nuclear fuel design and evaluation
 - ✧ CHF experiments and benchmarking and multiphase flow measurement
-



Prof. YUN Di 恽迪青拔

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Research Interests:

- ✧ Nuclear fuel performance
- ✧ Radiation effects in materials
- ✧ Behaviors of nuclear materials under reactor operation conditions

ACADEMIC TEAM



Associate Prof. ZHANG Bin 张斌副教授

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Research Interests:

- ✧ Reactor thermal-hydraulics and nuclear safety
- ✧ Nuclear reactor severe accident



Associate Prof. ZHANG Dalin 张大林副教授

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Research Interests:

- ✧ Nuclear thermal-hydraulics and safety analysis
- ✧ Neutronics/thermal-hydraulics coupling and safety analysis of advanced nuclear systems (MSR, SFR, TWR etc.)



Associate Prof. ZHANG Qingmin 张清民副教授

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Research Interests:

- ✧ Nuclear Detection and Measurement
- ✧ Particle Physics Experiments
- ✧ Radiation Shielding and Protection
- ✧ Nuclear Logging