

Department of Electrical Engineering



CHANGBAO WEN

文常保

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Home Page: <https://js.chd.edu.cn/nyydqgcxy/wcb/list.htm>

Research area:

1. Artificial intelligence (AI)
2. Micro&nano electronic device
3. Sensor and Instrument technology
4. Electrical and power technology



XUAN ZHENG

郑暄

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Research area:

1. Safety of tunnel maintenance and operation
2. Structural deformation detection
3. Image processing and machine vision
4. Traffic controlling technique



XIANFENG XU

徐先峰

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Research area:

1. Integration of Transportation and Energy
2. Artificial Intelligent
3. Big Data and their Application in Smart Grid
4. New Energy Technology



XIN HU

胡欣

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Research area:

1. Visual analysis of power inspection
2. Power grid big data processing
3. Feature extraction and feature learning of heterogeneous images
4. Machine learning and deep learning



YONG LU

卢勇

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Research area:

1. Power Quality
2. New energy technology



LEI YU

余雷

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Research area:

1. Power quality disturbance analysis
2. Intelligent traffic guidance
3. Building electrical and intelligent
4. Complex system theory
5. Agent simulation modeling



JIANYING GONG

巩建英

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Research area:

1. Motor control theory and application technology
2. Power electronic conversion technology
3. Micro grid control and management technology



YANBO LI

李艳波

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Research area:

1. Microgrid
2. Artificial intelligence
3. New energy technology



YIYAN LIU

刘义艳

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Research area:

1. Signal processing of Vibration signal
2. Prediction of power load
3. Fault Diagnosis of Power System



CHUNLING WU

巫春玲

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Research area:

1. Energy management of energy storage system
2. Battery management system
3. Energy management of intelligent building



TAO ZHANG

张弢

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Research area:

1. Power Vision Technology
2. Big data processing technology of smart grid
3. Security technology of power Internet of things



XIAOCHUAN HU

胡笑钊

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Research area:

1. Basic theory and phenomena of high voltage insulation, design of high voltage pulse power supply, biomedical role of nanosecond pulse electric field, biomedical role of plasma
2. Machine vision image detection, 3D model topology design



YU FENG

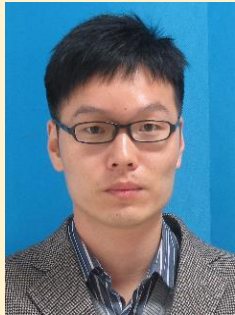
冯宇

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Research area:

1. Power system artificial intelligence
2. Embedded system



JUNSHUO CHEN

陈俊硕

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Research area:

1. Electric Drives
2. Power Electronic Converters Control in Grid-Connected Renewable Energy Systems
3. Energy Management in Electric Vehicles



JI KE

柯吉

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Research area:

1. Energy Management and optimization
2. Data-driven prediction control and application



GUIMIN XU

许桂敏

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Research area:

1. High voltage, gas discharge and plasma technology
2. Photovoltaic power generation technology
3. Building electricity and intelligence



LIN ZHANG

张林

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Research area:

1. Application of deep learning method in power electronics and new energy
2. New type power semiconductor devices



YANGNING ZHANG

张彦宁

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Research area:

1. Micro grid
2. Renewable energy control



ZHEN ZHANG

张震

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Research area:

1. Power Electronics
2. Motor Drive



LONGJIE LI

李陇杰

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Research area:

1. Green smart microgrid
2. High voltage technology



LUNZHI LI

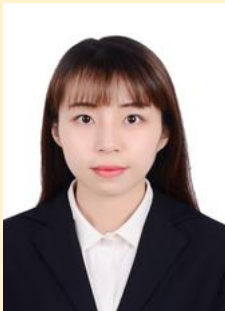
李论之

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Research area:

1. Dielectric insulation
2. Cable insulation and application



XINRONG HUANG

黄鑫蓉

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Research area:

1. Lithium-ion battery energy storage and applications
2. Electric vehicle power conversion technology



LIYUN SI

司利云

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Research area:

1. Design & Development of Innovative Electric Machines, Drives, and Controls;
2. Multi-Level Power Electronics Conversion;
3. Grid-Connected Renewable Energy Systems

Department of Energy and Power Engineering



HAO CHEN

陈昊

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Research area:

1. Engine combustion and emission characteristics
2. New energy science and engineering
3. Advanced power system for road transport
4. High efficient utilization of energy & fuels



LIMIN GENG

耿莉敏

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Research area:

1. Development and application of new energy for automobiles
2. Combustion and emission control for diesel engines
3. Fuel injection and atomization



YASONG SUN

孙亚松

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Research area:

1. Thermal management and rapid cooling;
2. Computational fluid dynamics in energy and power systems;



DONGHUI QI

祁东辉

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Research area:

1. Spray Combustion and Emission
2. Alternative Energy Technology
3. Optical Diagnostics



DING LUO

罗丁

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Research area:

1. Thermoelectric energy conversion
2. Waste heat recovery
3. Thermal management



HENG WANG

王恒

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Research area:

1. Friction and wear technology for IC engines
2. Vehicle thermal management
3. Key technologies for clean-energy vehicles



GUANGYU LIN

林广宇

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Research area:

1. Automobile electrical control technology
2. Electric vehicle control technology
3. Autonomous vehicle control technology



JINGANG GUO

郭金刚

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Research area:

1. Electric Vehicle Technology
2. Automobile System Dynamics
3. Vehicle Braking



WEI ZHAO

赵伟

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Research area:

1. Non-traditional manufacturing of micropore and microchannel in sprayer of engine
2. Mechanical and electrical integration
3. Key technologies in power battery manufacturing



GUOQING LIN

林国庆

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Research area:

1. Vehicle detecting test technology
2. Intelligent connected vehicles
3. Intelligent Transportation System



ZHAOYANG CHEN

陈朝阳

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Research area:

1. Alternative fuels
2. Ignition and flame propagation
3. Chemical reaction kinetics
4. Clean combustion engine



XULIANG XIE

谢旭良

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Research area:

1. Heat transfer enhancement
2. Battery thermal management
3. Air conditioning technology
4. Automobile impact safety



GENBAO LI

李跟宝

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Research area:

1. Liquid atomization
2. Atomizer design and testing
3. Alternative fuels



PENG ZHANG

张鹏

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Research area:

1. Technologies for low-carbon, efficient and clean engine
2. Application technologies and theories of renewable energy
3. Environmental impact diagnosis and evaluation of energy application
4. Technologies and energy mechanisms of renewable energy development and application



ZHANMING CHEN

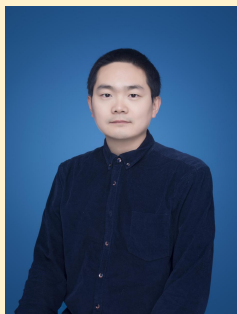
陈占明

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Research area:

1. Engine electronic control technology
2. Combustion and emission of low-carbon and zero-carbon fuel
3. Advanced combustion technology for engines



YANGYANG LI

李阳阳

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Research area:

1. Pollution formation and control
2. Application of alternative fuels
3. Internal combustion engine control



NAN GAO

高楠

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Research area:

1. New energy application
2. Intelligent connected vehicle



XIAOCHEN WANG

王小琛

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Research area:

1. Decarbonization of Internal Combustion Engines
2. Vehicle Emission Control



DONG HUANG

黄东

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Research area:

1. Carbon Capture, Utilization and Storage (CCUS)
2. Fuel Cells



YU LI

李钰

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Research area:

1. Gas-solid two phase flow
2. Transportation of aerosol



WEIJIA MENG

孟伟嘉

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Research area:

1. Energy storage materials for alkali metal secondary batteries (lithium/sodium ion batteries)
2. New energy storage system (water-based battery)
3. Extreme Environment Energy Storage Battery



HONGLIANG XIAO

肖红亮

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Research area:

1. Modeling, Performance Optimization and Intelligent Control of Turbomachinery: Focusing on aero-engines and marine gas turbines.
2. Intelligent Control of Hybrid Electric Propulsion Systems: Focusing on hybrid electric-turboengines.



CHAO LI

李超

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Research area:

3. Utilization of Shallow and Medium-Deep Geothermal Energy
4. Research on Enhanced Heat Transfer in Ground Heat Exchangers
5. Geothermal System Design



Wensen Ai

艾文森

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Research area:

1. Microscopic Numerical Simulation and Theoretical Research of Crystal Growth
2. Design, Optimization, and Numerical Simulation of Fluid Machinery

Department of New Energy Science and Engineering



FENG RU

茹锋

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Research area:

1. Power system modeling and optimization
2. New energy technology and application



YIPU ZHANG

张懿璞

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Research area:

1. Multi-modal data fusion
2. Integration of transportation and energy
3. Machine learning and distributed computing
4. Imaging genetics



MINGBO NIU

牛明博

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Research area:

1. Development, application and energy storage technology for renewable energy powered vehicles
2. Integrated transportation system and intelligent road technology
3. Research on Machine Learning and Industrial Internet of Things
4. V2V equipment and its cooperative working principle
5. Electric direct switching technology on vehicle terminals
6. Positioning, navigation, signal processing and automatic control of unmanned vehicles
7. Distributed energy microgrid and cellular AI
8. Vehicle-to-road (V2R) and multi-source environment awareness based on hybrid informatics
9. Road sensor system and wireless energy transfer
10. Terahertz technology and nondestructive detecting in transportation
11. Social Physical Information System (CPSS)



BIAO WANG

王飏

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Research area:

1. Transportation energy integration
2. System analysis and optimization
3. Multi-agent control
4. Control and optimization of traffic and energy information fusion system



GANG LI

李刚

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Research area:

1. Transportation energy convergence
2. Smart transportation
3. Artificial intelligence
4. Intelligent detection



JIE LI

李杰

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Research area:

1. Artificial intelligence and big data technologies
2. New energy planning and control
3. Big data research in intelligent transportation
4. Lithium battery safety
5. Data Mining and Information Compensation



YANG YANG

杨阳

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Research area:

1. Wireless power transfer systems for electric vehicles
2. On-road dynamic wireless EV charging
3. Resonant converter, vehicle to grid (V2G) and power electronics applications
4. Electromagnetic safety and electromagnetic compatibility of wireless charging systems in electric vehicles



XUE LI

李雪

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Research area:

1. Traffic energy saving control
2. Intelligent highway tunnel operation
3. Traffic information and control



GUOXING LI

李国兴

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Research area:

2. Hydrogen production and utilization
3. Combustion chemistry
4. Supercritical water gasification/oxidation