

# 上海電力大學學報

## SHANGHAI DIANLI DAXUE XUEBAO

2024年4月

第40卷 第2期

总第192期

### 目次

#### · 特约专栏:新型源荷与配电网互动技术 ·

特约专栏主编寄语 .....	(101)
基于 $\alpha$ -DDTW算法与功率波形相似度的馈线OP互联匹配 .....	徐 隽 刘礼阳 赵 健等 (102)
电-路耦合网络下电动汽车充电站选址定容低碳规划 .....	贾 瑞 高玉栋 赵 健 (109)
含EV充换储一体站的交直流混合配电网优化运行 .....	朱 兰 张 贺 (115)

#### · 智能设备与测量 ·

海上风电低频变压器铁心损耗特性实验研究 .....	李 想 李晓华 赵文彬等 (124)
基于GA-FC的双馈风机调频优化策略 .....	王长成 孟青叶 郭为民等 (129)
水热条件对冻融土电阻率及击穿特性影响研究 .....	禹贤虎 李景龙 赵文彬 (135)
冲击电压激励下轨道交通过渡电阻快速测量方法 .....	李 峰 李景龙 禹贤虎等 (143)
微功耗大气电场仪的设计与实现 .....	吕泽洲 朱 武 王光东 (150)

#### · 智能电网技术 ·

基于白盒化技术的配电站监控系统的应用 .....	王渝鑫 袁三男 瞿祎程等 (156)
考虑用户心理的居民社区负荷聚合商优化调度 .....	谢郑溶钊 林顺富 沈运帷等 (161)
面向联络线计划功率的直流微电网优化调度 .....	钱 虹 高义伟 印国祥 (169)

#### · 其他研究 ·

容量市场需求曲线制定的国际实践及启示 .....	褚希浩 贾秀锋 于帅康等 (178)
融合多尺度特征的核电施工图纸表格单元格识别 .....	徐雨晴 陈金强 黄杉杉等 (185)
双焦点微型聚光器安装于建筑外墙的光学性能分析 .....	何俊颖 安 巍 (191)

CONTENTS

Interactive Technology for Novel Source-Load and Distribution Network ..... (101)

Feeder OP Data Interconnection and Matching Based on  $\alpha$ -DDTW Algorithm and Power Waveform Similarity ..... XU Jun LIU Liyang ZHAO Jian *et al* (102)

Low Carbon Planning of Electric Vehicle Charging Station Location with Fixed Capacity Under Traffic-Grid Coupling Network ..... JIA Rui GAO Yudong ZHAO Jian (109)

Research on Optimal Operation of AC/DC Hybrid Distribution Network Considering EV Charging-Swapping-Storage Integrated Station ..... ZHU Lan ZHANG He (115)

Experimental Study on Core Loss Characteristics of Offshore Wind Power Low Frequency Transformer ..... LI Xiang LI Xiaohua ZHAO Wenbin *et al* (124)

Optimization Strategy of Frequency Modulation for DFIG Based on GA-FC ..... WANG Changcheng MENG Qingye GUO Weimin *et al* (129)

Study of the Effect of Hydrothermal Conditions on the Resistivity and Breakdown Characteristics of Frozen-Thawed Soils ..... YU Xianhu LI Jinglong ZHAO Wenbin (135)

Rapid Measurement Method of Transition Resistance in Rail Transit Under Impulse Voltage Excitation ..... LI Feng LI Jinglong YU Xianhu *et al* (143)

Design and Implementation of a Micro-Power Atmospheric Electric Field Instrument ..... LYU Zezhou ZHU Wu WANG Guangdong (150)

Application of Distribution Station Monitoring System Based on White Box Technology ..... WANG Yuxin YUAN Sannan QU Yicheng *et al* (156)

Optimal Scheduling of Residential Community Load Aggregator Considering User Psychology ..... XIE Zhengrongzhao LIN Shunfu SHEN Yunwei *et al* (161)

Research on Optimal Scheduling Strategy for Grid-Connected Operation of DC Microgrid Based on Planned Power of Interconnection Line ..... QIAN Hong GAO Yiwei YIN Guoxiang (169)

International Practices and Implications of Capacity Market Demand Curve Development ..... CHU Xihao JIA Xiufeng YU Shuaikang *et al* (178)

Nuclear Power Drawing Table Cell Recognition Based on Multi-Scale Features ..... XU Yuqing CHEN Jinqiang HUANG Shanshan *et al* (185)

Optical Performance Analysis for a Bifocal Micro Concentrator Installed at Facade ..... HE Junying AN Wei (191)