

2025 10th International Conference on Power and Renewable Energy (ICPRE 2025)

**Hangzhou, China
19-22 September 2025**

Pages 1–684

IEEE Catalog Number: CFP25H25-POD
ISBN: 979-8-3315-8663-8



Copyright © 2025, IEEE

All Rights Reserved

Copyright and Reprint Permissions:

Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

*** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.

IEEE Catalog Number:	CFP25H25-POD
ISBN (Print-On-Demand):	979-8-3315-8663-8
ISBN (Online):	979-8-3315-8662-1

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA

Phone:	(845) 758-0400
Fax:	(845) 758-2633
E-mail:	curran@proceedings.com
Web:	www.proceedings.com

TABLE OF CONTENTS

Frequency-domain Stability Analysis Based on Immittance with SimuNPS	1
<i>Dengke Gao, Linlong Shi, Hongbiao Li</i>	
Application Research of Reverse Osmosis Dosing System Based on PSO Xgboost	6
<i>Laigong Guo, Zhenyu Sun, Hao Meng, Lin Zhang</i>	
Equivalent Modeling of Aggregated Distributed Generation Based on Islanded System Topology	11
<i>Wanling Shi, Jianbin Yang, Yue Yu, Lin Ye, Mingjie Wei, Zhongqing Li, Hongtao Li, Yifan Song, Ruoxi Liu</i>	
Oscillation Analysis and Strategy Optimization in Weak System Operation with Multiple Types of Power Electronic Equipment	18
<i>Huifan Xie, Hongtao Liu, Qinlei Chen, Junjie Li, Guanghu Xu, Shengnan Li, Xin He</i>	
3D Reconstruction of Power Equipment via Scale Estimation under Geometric Constraints	27
<i>Yige Zhao, Ning Yang, Pengbo Zhang, Ziyang Xia, Hui Chen</i>	
Rapid Parameter Identification for Power System Dynamic Simulation Models Using Heuristic Optimization Algorithms	33
<i>Yiming Ma, Mingjie Li, Yikai Li, Fanqi Huang, Dongyan Yang</i>	
Transient Synchronous Stability Analysis of Multi-Grid-Following Systems with New Energy Sources	39
<i>Jilong Ke, Zhiyi Wang, Lin Cui, Yongcheng Ming, Linsong Li, Jun Yao</i>	
Traffic Prediction-Based Optimization for Control- and User-plane Separation Systems	45
<i>Shijun Luo, Chenjun Yang, Feiyi Lai, Jingbin Zhu, Heng Zhao, Liqiang Zhao</i>	
Electromagnetic Losses Analysis of a High-Power Permanent Magnet Wind Generator Considering Harmonic Effects	51
<i>Yuanhang Pan, Jiangtao Yang</i>	
Modeling and Characteristic Analysis of Controllable LoAD Sub Synchronous Impedance for Suppressing System sub/Super-synchronous Oscillation	57
<i>Wenchao Zhai, Liangzhong Yao, Xiangying Zhang, Jinglei Deng, Chong Shao, Xiping Ma</i>	
Auto-EIS: Automated Discovery of Equivalent Circuit Models from Impedance Spectroscopy via Deep Reinforcement Learning	65
<i>Chen Chen, Xiaowen Jiang, Kai Huang, Wei Xi</i>	
Research on the Scheme and the Impacts of Key Parameters for a Dual-stack RSOC-MSTS system	71
<i>Zijie Ye, Puyan Zheng, Qunzhi Zhu, Yatong Huang, Hang Zhao, Xiangpeng Zhang, Jiahao Cheng</i>	
A Fitting-Based Modeling Method of TCLs for Power System Demand Response	81
<i>Yu Zhou, Yibao Jiang, Haoran Zhao</i>	
Stability Analysis of DC Distribution Systems Based on an Improved Frequency-Domain Modal Analysis Method	85
<i>Yonghao Xie, Yandong Chen, Lei Ren, Liqin Chen</i>	
Voltage and Frequency Regulation of Parallel Inverters via Consensus-Based Secondary Control in AHO-VOC Microgrids	91
<i>Zihao Li, Lamei Xu, Wenchao Zhu, Changjun Xie</i>	

LCL-Based Full Feed-Forward Control of Grid-Connected Inverter Voltage	97
<i>Xinwei Yang, Xin Gao</i>	
Real-Time Adaptive Attack Detection in Grid-Forming Inverters via Offline-Online Optimization	103
<i>Shiang Guo, Kaikai Pan, Zhouhao Ji, Wenyuan Xu</i>	
Hybrid PWM Scheme for Common-Mode Voltage Reduction in Asymmetrical DC-Link Voltages Dual-Inverter OEW-PMSM Drives	109
<i>Guangan Chen, Bo Zhang, Wei Feng</i>	
Analysis on Resonance Mechanism and Research on Suppression Methods of Multi-Inverter Parallel System under Islanded Operation	114
<i>Shichao Dong, Lin Cui, Guang Gao, Linsong Li, Hao Fu, Jun Yao, Guo Liu</i>	
Performance Degradation Assessment and Correction Design for Digital-Control Inverters	120
<i>Cheng Sun, Zhiyong Chen, Wenhua Luo, Rongwu Zhu, Shengzhao Shen, Dongxiang Jian, Fuhua Wang Xiqiang Chang</i>	
A Novel Transformerless Single-Stage Single-Inductor Buck-Boost Inverter with Leakage Current Suppression Capability	126
<i>Zhehao Wu, Weimin Wu, Houqing Wang, Mingsan Ouyang, Frede Blaabjerg, Liang Yuan</i>	
Impedance-Based Stability Analysis of Grid-Connected Inverters and Enhanced Coordinated Control Strategies for Weak Grid Integration	132
<i>Xiang Fu, Rui Li, Zhaogang Li, Zhiwen Suo, Ran Guo, Jiaying Wang, Chou Ma, Xing Zhou</i>	
Simplified Finite Control Set Model Predictive Control Strategy Based on Support Vector Machine	138
<i>Yaqi Shu, Weimin Wu, Houqing Wang, Mingsan Ouyang, Frede Blaabjerg, Liang Yuan</i>	
A Data-Driven Simulation Platform for Harmonic Source Localization	144
<i>Yuyao Wu, Yinhui Li, Yangguang Zhang, Qingxin Shi</i>	
Mode Switching Method of Three-port Converter Based on Neural Network Fitting Explicit MPC	150
<i>Peng Luo, Yili Li, Lei Guo, Zhaohong Wu</i>	
Parameters Identification Method based on Deep Learning and LM Algorithm for Sub/Super Synchronous Oscillation in Power Systems	156
<i>Wu Wei, Liu Yuming, Yuan Hao, Zeng Dehui</i>	
Power System Situational Awareness and Oscillation Warning Based on PMU Data	162
<i>Miao Yu, Zihao Lin, Jingjing Wei, Jianqun Sun</i>	
A Soft-Start Strategy for CLLC Resonant Converter with Full-Range Load	171
<i>Wenbin Chen, Zhanghai Shi, Jianguo Fu, Yue Wang, Ling Feng</i>	
A New Single-phase Common-ground Rectifier with Reduced DC-link Capacitance	177
<i>Mingyuan Ma, Xiaobin Mu, Weimin Wu, Yuhao Yuan, Mingsan Ouyang, Xiang Wang</i>	
Robust SOSM Based Current Sensorless Control Design for Buck Converters with Disturbances	184
<i>Zhongding Zhang, Weile Chen, Zuo Wang, Shihua Li</i>	
Research on Application of Controllable Line-Commutated Converters for UHVDC System	190
<i>Dezhen Zhang, Jun Li, Jianjun Ma, Chuliang Xue, Lei Lu, Haishan Xiao</i>	

A Method for Determining the Critical Clearing Angle of an Islanded Parallel GFM System with Circular Current Limiter	196
<i>Yu Ding, Xia Chen, Hui Yang, Chen Liu, Jianyu Zhou, Zhenbin Huang, Kezan Zhang</i>	
Fast Calculation of Electromagnetic Vibration of Hydro Generator Accounting for Pole-Slot Structure	202
<i>Xiaolong Zhao, Jianjun Liu, Jian Xiao, Yong Yang, Jin Wang, Libing Zhou</i>	
Research on the Central Measurement Device of Programmable High-precision Hydraulic Turbine Generator Sets	208
<i>Jihong Kong, Jiahao Xiao, Yisong Lv, Xi Luo, Guanbao Li</i>	
Research and Application of Prediction and Diagnosis Model for Startup Time of Hydropower Plant Units Based on Improved Random Forest and Multi-source Data Fusion	214
<i>Haoyu Liu, Yong Luo, Peng Zhang, Yifan Wang</i>	
Improved HVRT Control of PMSG-based Wind Turbine Considering Current Operation Region	219
<i>Zhichao Yang, Jiaying Lei, Bingtuan Gao, Lingzhi Zhu</i>	
Hybrid Active Damping Control Algorithms for LC-Filtered Motor Drive with Two Rotating Masses	225
<i>Xiong Liu, Zhifeng Huang, Zhenhua Liang</i>	
Adaptive Power Quality Modulation Method for Open Winding Permanent Magnet Synchronous Motor based on Hybrid Energy Storage Configuration	233
<i>Wei Feng, Ting Dong, Yiming Ma, Bo Zhang, Renjie Fu, Guilin Zhao</i>	
Electromagnetic Vibration Analysis of Doubly-Fed Induction Machines for Variable-Speed Pumped Storage	239
<i>Haoyu Kang, Tao Lei, Yiming Ma, Lu Sun, Zequan Li, Libing Zhou</i>	
Primary Frequency Modulation Performance Evaluation of Thermal Power Units via Game Theory - TOPSIS	247
<i>Ao Shen, Chunmei Xu, Daogang Peng, Yuzhen Sun</i>	
Multi-Scale Feature Aggregation Module for Drone-based Wind Turbine Defect Detection	254
<i>Wei Li, Shenwang Li, Yuyang Zhou, Yunwei Zhang, Junlong Deng, Zhenkang Zhang, Li Liu, Thomas Wu</i>	
Design of Stabilizing Control Strategy for Grid-Forming Wind Turbines	260
<i>Zhijie Zeng, Jialuo Wu, Zhixiang Zou, Xinlei Liu, Ye Tian, Xiaoqing Lin</i>	
Short-Term Power Prediction in Wind Turbines based on CNN-GRU with Multi-Head Attention Mechanism	266
<i>Nigel Tapiwa Terera, Xue Li</i>	
Research on Inductance Calculation in Doubly-Fed Machines Considering End Magnetic Coupling	272
<i>Wenhao Chen, Kaihua Long, Huiyong Jin, Kexun Yu, Xi Chen, Xianfei Xie</i>	
Parameter Optimization for Frequency Stability of Multiple Virtual Synchronous Generators in Rural Island Microgrid under Load Disturbance	278
<i>Xinyu You, Shengbin Chen, Song Zhang, Hao Bai, Yongxiang Cai, Wei Li</i>	
Electromagnetic Analytical Modeling for Interior Permanent Magnet Motors Considering Non-Uniform Saturation and Saturation Overflow	284
<i>Shiqi Li, Wang Hu, Zhiwen Deng, Wenming Tong</i>	

Benchmark Modeling of Key Operational Parameters on the Boiler Side of Thermal Power Units	290
<i>Peng Shi, Yuzhen Sun, Daogang Peng</i>	
Multi-Objective Optimization Design of PMSM for Mining Pumps Using Taguchi Method	296
<i>Shuo Zhou, Sili Zhou, Tianxiang Zhu, Qinglong Zhu, Yuanyuan Jiang, Qunjing Wang, Guoqiang Chen</i>	
Analysis of the Influence of Permanent Magnet Shape on the Electromagnetic Characteristics of Halbach Permanent Magnet Synchronous Motors	302
<i>Yu Cao, Jin Wang, Jian Xiao, Junhao Yang, Libing Zhou</i>	
Multi-objective Optimization Design of Magnetic Field Modulated Permanent Magnet Synchronous Linear Motor	309
<i>Peng Gao, Zhenyu Wang, Yiming Ma, Zhiqing Li, Hanyuan Li, Xuefeng Zhang, Yikai Li, Yumin Peng</i>	
Analysis of Shipboard Power Systems with Saturable Models of Synchronous Machines	314
<i>Shadman Saqlain Rahman, Abhay Kaushik, Fardin Sohel, Seyyedmilad Ebrahimi, Juri Jatskevich</i>	
Improved Deadbeat Predictive Current Control of PMSM Based on Disturbance-Estimated Parameter Identification	321
<i>Fan Yang, Hua Cai</i>	
Low-Order Induction Machine Model with Saturation and Air-Gap Flux Harmonics	328
<i>MohammadSadegh Khajuee Zadeh, Arash Safavizadeh, Navid Amiri, Juri Jatskevich</i>	
Physical Rotor Speed Coupling based Inertia Support Control for DC Wind Turbines in offshore DC wind power system	334
<i>Tianyi Xu, Zemiao Ge, Zaiyu Chen</i>	
Research on a Wind Heating Device Based on Direct Drive of Horizontal-Axis Wind Turbines	341
<i>Liu Jun, Wang Qianxiang</i>	
Low-Voltage Ride-Through Operation of Grid-Forming Converters Based on Virtual Synchronous Generator Control	345
<i>Ao Jiao, Rui Li, Zhaogang Li, Dawei Chen, Ran Guo, Jiaying Wang</i>	
Sensorless Control Research on PMSM for Mining Pumps with Sliding Mode Speed Control and Time Delay Compensation	351
<i>Zhipeng Yao, Sili Zhou, Tianxiang Zhu, Qinglong Zhu, Yuanyuan Jiang, Qunjing Wang, Shuo Zhou</i>	
Analysis and Suppression of 500kV shunt reactor Core and Clip-on Loop Current	357
<i>Tiancheng Yan, Neng Wang, Haoyu Liu, Yuxiong Pan, Yayou Guan, Shanfeng Huang</i>	
Adaptive Prescribed-Time Control via Filterless Least Squares Based on HOFA System Approach	361
<i>Peng Wang, Minrui Fei, Yonghui Chen, Dajun Du</i>	
A Modified Three-Level Neutral-Point-Clamped Converter for a Low Carrier Ratio	366
<i>Xi Chen, Xiao Zhang, Xiaohong He, Jian Yang, Yangxiao Xiang, Yang Xiao</i>	
Simulation Study of Gas Diffusion Law under Forced Oil Circulation in Transformer	371
<i>Liu Jun, Xu Kui, Li Kun, Chen Peilong, Zhao Sicheng, Zhuo Ran, Gao Meng, Li Yang</i>	
Parameter Optimization Design of Bidirectional CLLC Resonant Converter	375
<i>Haoyu Shi, Zhihua Li, Nan Wu</i>	

Optimization and Application of Induced Voltage Withstand and Partial Discharge Test Methods for 500kV Large-Capacity Double-Split Shell Transformers	381
<i>Yuxiong Pan, Neng Wang, Haoyu Liu, Tiancheng Yan</i>	
Study on Vibration Characteristics of Dry-type Transformer under Different Mechanical States	387
<i>Jiarui Dong, Zhimeng Xu, Xiaodou Ni, Qun Yang, Jiaming Feng, Yingshi Wei, Jun Liu</i>	
Siting and Sizing Strategy for Thyristor-Controlled Phase Shifting Transformers Based on an Evaluation Indicator System	392
<i>Jinyang Li, Xin Zhao, Shan Gao, Maosheng Xu, Qun Li, Shi Chen, Ningyu Zhang</i>	
An Online Asymmetric Modulation for Resonant DAB Converters With Full/Half-Bridge Support and Reactive Power Minimization	398
<i>Chaofan Cui, Lei Ren, Minqian Wang, Haiguo Tang, Linxiao Gong, Feng Zhang, Yong Wang</i>	
An Electromagnetic Energy Harvester for Powering Embedded Sensors Inside Wind Turbine Blades	404
<i>Lizheng Yu, Zhifeng Zhang, Qingquan Qiu, Liwei Jing</i>	
Triple-phase-shift-based Co-optimization of Current Stress and Soft Switching for Dual Active Bridge Converters	412
<i>Hongwei Xia, Xin Gao</i>	
Research on Adaptive Sliding-Mode Control Strategy for Modular Multilevel Converters	417
<i>Dongfang Zhao, Xuanhui Zhao, Gang Yao, Xiaoyin Shen, Yujie Hu, Muhammad Muzammal Islam</i>	
Investigation of Influence of Pore Structure on CO ₂ -Driven CH ₄ Displacement in Porous Media through Lattice Boltzmann Method	423
<i>Chengce Zhao, Yanjie Zhou, Guojun Yu</i>	
Exceptional Out-of-Plane Piezoelectricity in Flexible Janus XSSiP ₂ Monolayers: Enabling Low-Power and High-Responsivity for Next-Generation Applications	429
<i>Biao Ma, Xinguo Ma, Jiaqi Wang</i>	
Progressive Flow Air Balancing Method based on Reinforcement Learning	435
<i>Hang Lin, Fanyong Cheng, Lisheng Wei, Minglu Zhang, Chongjing Zhang</i>	
Study on the Diffusion Behavior of H ₂ O in Natural Ester-based Mixed Insulating Oils	441
<i>Chuanhui Cheng, Ran Zhuo, Quan Cheng, Dayu Liu, Chao Tang</i>	
Assessment of Insulation Health Status in Cable Terminal Tail pipes under Single-Phase Ground Fault	446
<i>Yifeng Zhao, Siqi Liu, Yike Song, Pengyu Wang, Yihua Qian, Qing Wang, Lei Peng, Yaohong Zhao</i>	
The Influence of Temperature and Pressure on the Microscopic Simulation Results of Nano Modified Natural Ester Insulating Oil	451
<i>Chuanhui Cheng, Ran Zhuo, Zhuoyue Sun, Chao Tang</i>	
Research on Procurement Strategy of 500kV Transformers and Gas Insulated Switchgear Based on LCC	455
<i>Na Li, Chengqi Li, Jianqiang Han, Weiwei Zhang</i>	
A Calculation Method for Moisture Content in Transformer Solid Insulation Considering the Coupling Effect of Electric Field and Temperature Field	460
<i>Liu Jun, Li Kun, Xu Kui, Chen Peilong, Xu Shurong, Fu Shengjun, Zhao Sicheng, Zhuo Ran</i>	

Study on the Compatibility between Natural Ester and Natural Ester-Based Mixed Insulating Oils with Different Types of Insulating Paper	464
<i>Weiju Dai, Jingyi Yan, Haoruo Sun, Qingyun Min, Yuehong Liu, Chao Tang</i>	
Three-Dimensional Characterization of Discharge-Induced Damage in Insulating Pressboard: A Nano-Ct and SEM Study	469
<i>Haojie Ni, Huanchao Cheng, Zhaoying Ren, Jing Xu, Jing Li, Yun Feng, Dandan Cui</i>	
Towards Defect Detection of Transmission Line Insulator: A Dataset, Benchmarks and Challenges	473
<i>Zhedong Hu, Yongjie Zhai, Zhenbing Zhao, Qianming Wang, Bangchao Zhai, Ke Yang, Peiyao Hu</i>	
Study on Compatibility of Natural Ester and Natural Ester-Based Mixed Insulating Oils with Transformer Solid Materials	483
<i>Yingdun Hei, Weiju Dai, Jingyi Yan, Zewen Yang, Liuyue Fu, Chao Tang</i>	
An Emergency Support Strategy for Faulted Transportation Electrification Networks Based on Hybrid Graph Attention-Deep Double Q-learning	489
<i>Jianting Tang, Qiang Xing, Qiutian Zhong, Weiming Ni, Yujie Sheng</i>	
Scaling Fault Early Warning for Synchronous Condenser Circulating Water System Based on Normal Behavior Modeling and Residual Analysis	495
<i>Yanlong Li, Haisong Lu, Zhiwei Cao, Qing Yan, Chengxiao Song, Dan Cai, Xiangjian Shi</i>	
An Improved Current Error Control Strategy for Suppressing Subsequent Commutation Failures	500
<i>Chongru Liu, Haoyun Dong, Yipeng Lv, Peinan Wang, Zhixian Li, Chenbo Su, Jiashu Fang</i>	
Fault Diagnosis for Inverter in Power Flow Generation System Using Enhanced Filtering Convolutional Neural Network	506
<i>Yue Yu, Tianzhen Wang, Peng Luo, Fan Zhang, Mohamed Benbouzid</i>	
Research on bipolar short-circuit fault protection strategy based on CTB-MMC	512
<i>Guiyang Cui, Huailong Li, Rundong Chen, Mingzhen Yang, Fujin Deng, Jinjiao Lin, Zhongma Wang Wei Tong</i>	
Research on fault location of underground power cables in coal mine	519
<i>Yue Wang, Xiang Rong, Han Shi, Xiaoyuan Guo, Yao Gao</i>	
RFECV-CFOA-XGBoost Model for Wind Turbine Blade Icing Fault Diagnosis	525
<i>Jing Chen, Yuhang Zheng</i>	
Research on Rapid Assessment Method of Grid Out-of-Step Oscillation Risk under Severe Faults	531
<i>Zelun Sun, Jiawei Hu, Lianghao Li, Wei Xiong, Delong Zou, Chengfei Wang</i>	
Photovoltaic Array Fault Diagnosis Based on CNN-BiLSTM-Attention Optimized by Black-Winged Kite Algorithm	537
<i>Liqing Geng, Yadong Yang, Genghuang Yang, Jianghong Hu</i>	
Multi-time Scale Scheduling Strategy for Microgrid Considering Component Faults	544
<i>Xian Bao, Fan Chen, Hongqi Xu, Man Wang</i>	
Intelligent Fault Detection Algorithm for VSC-MTDC grids with S-Based Deep Convolutional Neural Network	552
<i>Yunqi Zhang, Yue Yu, Guosheng Yang</i>	

Study on Simulation Method for Transport Characteristics of Fault Characteristic Gases in Transformer Oil	558
<i>Jun Liu, Sicheng Zhao, Kun Li, Ran Zhuo, Kui Xu, Peilong Chen, Shurong Xu, Shengjun Fu</i>	
An LSTM-SVM hybrid framework for thermal fault diagnosis in SOFC systems: single and multi-fault analysis	563
<i>Xiaolong Wu, Zhuxun Li, Yushui Huang, Xi Li</i>	
Research and Application of Partial Discharge Fault Identification Method for Large-Capacity Generators Based on RNN Neural Network	572
<i>Haoyu Liu, Neng Wang, Hongbin Zhou, Yuxiong Pan, Tiancheng Yan, Shanfeng Huang</i>	
Fault Characteristic Analysis and Protection Device Design for LVDC System	578
<i>Yuanjun Hou, Chengzhang Jin, Xiaoyan Gao, Yi Zhang, Shuangxin Zhu, Zhixin Wang, Jinbin Zhao</i>	
Risk Assessment of Commutation Failure and Grid Enhancement Scheme for Multi-Infeed DC Systems	584
<i>Ting Zhou, Hui Cai, Zhuqi Peng, Weiyuan Wang, Wanchun Qi, Jinmin Cheng, Xuanjun Zong</i>	
Critical Line Identification for Cascading Failures in Wind-Integrated Power Systems	591
<i>Yuyao Feng, Chengquan Liu, Yufan Zhang, Fengyi Zhu, Xiaoxia Zheng, Yang Fu</i>	
A Multi-Metric Cluster Partitioning Strategy for Distributed Voltage Control in High-Penetration Distributed PV Distribution Networks	597
<i>Hongrui Wu, Ruoyu Zhang, Bo Ren, Jing Zhou, Xiao Wang, Yu Zhang, Yu Ruan, Qi Zhou, Junyong Wu</i>	
Voltage Regulation in Distribution Networks with Distribution Photovoltaic Based on HELM Voltage Stability Index	604
<i>Jiayue Zhang, Huimin Gao, Ruisheng Diao</i>	
Intraday Reactive Power Coordinated Optimization for Urban Rail Voltage Source Converters	613
<i>Bo Chang, Fei Li, Gengyuan Zhang, Liang Sun, Junjie Lin</i>	
A True Bridgeless Cuk and SEPIC-Based AC-DC Converter With Wide Output Voltage and Reduced Switch Stress	618
<i>Zhengge Chen, Jiheng Cai, Zhiwei Zhou, Lei Bai, Jianping Xu</i>	
A Modulation Strategy With Flexible DC-bus Voltage Control From Multi-Rotor Medium-Voltage Wind Turbines	624
<i>Yingjun Yu, Qianxi Xu, Ming Li, Rui You</i>	
Research on Transient Voltage Support Capability of New Energy Grid-Connected Systems Based on Grid-Forming Energy-Storage SVG	630
<i>Mingqun Liu, Peng He, Jiawei Yu, Chao Luo</i>	
Online Auxiliary Decision-making Generation Method Considering Voltage Security and Stability of New Energy Base	636
<i>Feng Luo, Rui Zhou, Xuanyuan Wang, Weilun Ni, Haitao Liu, Jiabin Zhang</i>	
Optimization Method for Distributed Configuration of Grid-Forming Units to Enhance Small-Signal Stability	641
<i>Bo Yin, Cuidi Qin, Yinan Wang, Yiye Pan, Zhijie Liu, Weidong Liu</i>	
A Innovative Power Grid Forming Method for Power Electronics-Dominated Source-Grid-Load energy system: Constant-frequency/Phase Voltage Control Based on Time Synchronization	647
<i>Yongqi Zhao, Wei Deng, Wei Pei, Yongjian Bi, Maozeng Lu</i>	

Mechanism Analysis of the Influence of PLL Dynamic Response on Transient Voltage at the Sending End under Commutation Failure	653
<i>Mingqun Liu, Peng He, Guanming Zeng, Chao Luo</i>	
Analysis of Voltage Interaction Characteristics in Receiving-end Power Grid with Embedded HVDC	660
<i>Qucheng Xie, Ying Huang, Guoteng Wang, Jianhua Li, Haifeng Li, Xian Xu</i>	
A Calculation Method for Maximum Transmission Power of Tie-Lines Considering Renewable Energy and HVDC Integration	666
<i>Ansi Wang, Gongwei Xi, Xuliang Wang, Yinglin Liu, Jiahui Han, Jingzhe Tu</i>	
Research on the Interactive Influence of Multi-Layer Nested Sections on the Power Delivery Capability of New Energy Aggregation Systems	672
<i>Dehai Zhang, Xuanyuan Wang, Haitao Liu, Haibo Li</i>	
Deep Learning-Driven Optimization of Grounding Configurations for 110kV Transmission Lines in High-Resistivity Mountainous Terrain	677
<i>Jian Ma, Chengzhou Wu, Jianliang Zhang, Qiang Zeng</i>	
A Brief Discussion on the Technical Route for Enabling Substation Reclosing on 10kV All-Cable Lines	682
<i>Benhuang Zhang</i>	
A Discrimination Method for Cascading Commutation Failures in Multi-Infeed HVDC Systems within AC/DC Hybrid Grids	685
<i>Ansi Wang, Xuliang Wang, Jiahui Han, Jingzhe Tu, Yichi Zhang, Xin Wang</i>	
Overvoltage and Insulation Coordination Study for Offshore Wind Power Medium-Frequency Collection via DRU-MMC Hybrid DC Transmission System	692
<i>Haokai Xie, Yi Lu, Xiaojun Ni, Yilei Gu, Wenyao Ye, Jiateng Wang, Zheren Zhang, Zheng Xu</i>	
Estimation Method for Simultaneous Commutation Failure in Multi-Feed HVDC Systems Across Multiple Time Scales	699
<i>Yuqing Liang, Zhengjun Gao, Xiaoqi Zhang, Ping Wei, Xuetao Dong, Yue Fan, Chao Huo, Longtao Ma</i>	
Research on Fault Isolation and Ride-Through Methods for Multi-Terminal Flexible HVDC Systems Based on CTB-MMC	705
<i>Sheng Qian, Huailong Li, Rundong Chen, Mingzhen Yang, Fujin Deng, Jinjiao Lin, Zhongma Wang, Wei Tong</i>	
Analysis of the Operating Characteristics of a 100% Photovoltaic New Energy Base Flexible DC Transmission System	711
<i>Jinning Zhang, Ying Huang, Guoteng Wang, Yan Li, Ye Zhang, Wangqianyun Tang, Ziqian Yang</i>	
A method of medium-term load forecasting combining meteorological factors and special events	718
<i>Juan Yan, Yuhang Qian, Cungang Hu, Shaokun Zou, Peiyang Guo</i>	
Narrow Domain Small Sample Electric Load Forecasting Based on Multi-Source Transfer Learning	724
<i>Zhang Anji</i>	
Analysis of Hubei Power Load and New Energy Operation Characteristics	730
<i>Hu Jidong, Wang Wenna, Zhang Liangyi, Yin Binxin, Sun Guanqun</i>	
Data Center Computing Load Forecasting Based on Feature Modeling and the Informer Model	739
<i>Yihan Zou, Hui Chen, Jian Wang, Chunyang Gong, Zhixin Wang, Shousong Jin</i>	

Day-ahead and intra-day Coordinated Optimal Scheduling of Multi-Energy Coupled Virtual Power Plant under Source-Load Uncertainties	745
<i>Junrui Feng, Dechang Yang</i>	
A Frequency-enhanced Multi-task Mixture-of-Experts Network for Multi-energy Load Forecasting under Small-sample Scenarios	752
<i>Yan Shao, Minghui Ji, Chengcheng Jiang, Qunzhi Zhu</i>	
A MILP Model for Distribution Network Reliability Improvement under Active Islanding Strategy	759
<i>Yu Song, Kai Cui, Xuyang Wang, Xiaohui Ma</i>	
A UAV Routing Strategy For Distribution Network Post-disaster Recovery Considering Energy Consumption Calculation For Returning	765
<i>Yu Gong, Gang Wang, Wende Teng, Chuanzhang Yan, Fudong Lu, Zihao Wang, Chao Wu, Jianfeng Fu</i>	
GCN-Based End-to-End Dynamic Regional Partitioning and Distributed Optimization for Distribution Networks	770
<i>Haiteng Han, Shuyu Cao, Qingxin Shi, Xiangchen Jiang, Zhihao Lu, Guoqiang Sun</i>	
A Light-Weight Load Forecasting Method Considering Spatio-Temporal Correlation Modeling in Distribution Networks	776
<i>Ming Zhao, Jian Jiang, Hongliang Tang, Jiali Xing, Shuiyun Zhang, Yuan Hong Lee, Zheng Wang</i>	
A Heterogeneous Drone Routing Strategy for Distribution Network Post-disaster Recovery	782
<i>Yu Gong, Xiaochen Shan, Jinyu Zou, Shuangye Yan, Luyu Qu, Meiling Jin, Chenglun Song, Jianfeng Fu</i>	
Multi-dimensional Configuration Optimization of Low Voltage Measuring Equipment in Distribution Networks	787
<i>Jiawei Fan, Kangmin Hu, Yinglong Diao, Huiyong Luo, Haoyu Chen</i>	
Real-time Soft Open Point Scheduling in Active Distribution Networks Based on Deep Reinforcement Learning: A Multi-Agent Soft Actor-Critic Approach	792
<i>Jiajia Huan, Zuogang Guo, Mintong Zhao, Hao Bai</i>	
Distributed Optimization Method for Distribution Networks Considering Multi-Type Loads in Smart Buildings	799
<i>Yiting Jin, Da Xu, Zhaoyan Wang, Zhenchong Wu, Shufeng Dong</i>	
Sectionalizing Switch Deployment in Active Distribution Networks: MILP-Based for Reliability and Economy	806
<i>Xiaohui Ma, Yue Chen, Lihu Jia, Guangchao Qian</i>	
Safety-Constrained Optimal Planning of Distributed Energy Storage System in Distribution Networks with High Renewable Energy	812
<i>Shuxian Yi, Guowu Li, Xinsheng Ma, Zezhong Wang, Yuan Ma, Yang Hu, Xinyue Chang</i>	
Smart Distribution Grid Operation Simulation for Efficient Accommodation of Distributed Renewable Energy	819
<i>Yuanchao Zhang, Youjia Tian, Yongyue Han, Xinyu Wang</i>	
Long-Short Term Joint Optimization Dispatch Strategy for Large Farm-Level Distribution System Considering Flexible Irrigation Facilities	824
<i>Yiming Wang, Junfei Wu, Zhongkai Yi, Ying Xu, Zhenghong Tu, Yuzhe Shao, Pengfei Zhang, Jun Peng</i>	

Hybrid CNN-LSTM Based Fault Detection and Classification in Three-Phase Power Transmission Lines with Dynamic Noise Fault Signals	830
<i>Haymanot Workie Dessie, Haiquan Zhao, Yi Peng</i>	
Online Location Method of Forced Subsynchronous Oscillation Disturbance Source Based on Transient Energy Flow	836
<i>Ying Cheng, Jian Zhang, Ying Yang, Feng Luo, Wei Dong, Shize Ye</i>	
A Small Sample Condition Awareness Method for Primary Equipment of Power System Based on GO-SMOTE and MSCCN	842
<i>Jianxu Yang, Kejun Yang, Wenli Huang, Yang Tong, Yu Wang, Zhaoran Wang</i>	
Widely Linear Total Hyperbolic Secant Algorithm with Online Censoring for Accurate Power System Frequency Estimation	848
<i>Kaleab Derbew Abebe, Haiquan Zhao</i>	
Robust adaptive command filtered fault-tolerant control for MSVs	854
<i>Mengwei Chen, Guichen Zhang, Bing Han, Ronghua Gao</i>	
Ultra-Weak Fiber Bragg Grating Distributed Cable Temperature Sensing Method to Overcome the Influence of Natural Wind	859
<i>Baijie Zhou, Haining Tang, Zhien Zhu, Fanyi Cai</i>	
Analysis of Active Power Frequency Fluctuations and Frequency Response in Wind Turbine Generators	865
<i>Chenbo Su, Wenchuan Wu, Chongru Liu, Weixiang Huo, Jiashu Fang</i>	
Pulsed coherent laser wind measurement technology based on an improved multi-signal classification algorithm	872
<i>Hu Hong, Li Hong, Wen Libin, Xi Jinji, Tang Jingguang, Luo Yuying</i>	
Equivalent Impedance Modeling of Grid-Forming Devices for Small-Signal Stability Analysis in Hybrid Systems	877
<i>Zhijie Liu, Weidong Liu, Zhongyu Fu, Cuidi Qin, Zhixian Hou, Bo Yin</i>	
Energy Optimization and Management Strategy for Electric/Hydrogen Hybrid Microgrid Based on Multi-Stack Fuel Cell System	882
<i>Jiajun Ou, Zeyu Yang, Jianxiang Xie, Weize Chen, Shanshan Cai, Yuren Wang, Ze Zhou</i>	
Research on Energy Storage Optimal Configuration Method of Independent Microgrid Considering Electrical and Thermal Controllable Load	891
<i>Wei Xu, Yeteng Wang, Siqi Yu, Yiming Wang</i>	
Hierarchical Distributed Frequency Control Strategy with Soft Plug-and-Play for Microgrid Clusters	897
<i>Zhenwei Yu, Yunxin Liu, Wei Hu, Huidong Min, Li Ding, Liangzhong Yao</i>	
Development and Design of Energy Management and Control Platform for Enterprise Microgrid	903
<i>Tong Liu, Fang Gao, Xiaoxu Jiang, Zhihe Li, Jinxi Hu, Songtao Han</i>	
Predefined-Time Hierarchical Cooperative Control for SOC Balancing of Multiple Energy Storage Units in DC Microgrids	911
<i>Jipeng Gu, Guohui Deng, Jianxiao Wang, Weijie Zhang</i>	
Research on Source-Load-Storage Optimal Control Method Based on the Goal of Synergizing the Reduction of Pollution and Carbon Emissions	917
<i>Yuan Zheng, Liu Qian</i>	

Comparing SAC and DQN in Microgrid EMS: Baseline Results under Fixed Electricity Price	923
<i>Pengyu Jin, Jiangchao Qin, Chunyan Ma, Guanglin Sha, Xinwei Cong</i>	
Optimal-Power-Flow-Based Battery Energy Storage System Sizing in Controlled Islanded Microgrids	927
<i>Gibran David Agundis Tinajero, Cesar Diaz-Londono, Daogui Tang, Josep M. Guerrero</i>	
Research on Comprehensive Control of Wind-Wave-photovoltaic-Hybrid Energy Storage Microgrid System	933
<i>Ling Zhou, Nor Shahida Mohd Shah, Faridah Hanim Mohd Noh, Li Shen, XiaoYong Mo, HongYan Wang</i>	
A Novel Bipolar Rectifier with Output Short-Circuit Current Limitation for Microgrids	941
<i>Jinyue Guo, Weimin Wu, Mingsan Ouyang, Xiaobin Mu, Frede Blaabjerg, Liang Yuan</i>	
Hybrid Modulation of Four-Switch Buck-Boost Converter with Reduced Current Stress and Power Loss for DC Microgrid	948
<i>Zhang Cheng, Jianjun Ma, Fan Xiao, Miao Zhu</i>	
State of Health Estimation for Liquid Metal Battery based on Time Series of Discharging Capacity	954
<i>Ruxing Wang, Cheng Xu, Qionglin Shi, Xiaoxing Zhang, Kai Jiang, Kangli Wang</i>	
Bi-Level Capacity Optimization Planning for Integrated Energy Systems Incorporating Carnot Battery	960
<i>Jiaying Chen, Liwei Ding, Hongkun Lv, Xiangrui Jin, Jiahao Xu, Xiaojie Lin</i>	
Research on Energy Management Strategy of Fuel Cell Electric Vehicle Based on Improved Double Delay Depth Deterministic Strategy Gradient	966
<i>Wei Wang, Zekun Jia, Fufan Qu, Yiwen Sun</i>	
Study on the Charging and Triggering Thermal Runaway Heat Generation Characteristics of Lithium Iron Phosphate Batteries	971
<i>Chuihui Zeng, Yan Gan, Jun Wu, Baolei Li, Yaqi Fang, Nuo Chen</i>	
A Systemic Deep Learning Approach to Battery SOH Estimation: Integrating IC Curve Analysis and STAR-Mamba Modeling with Real-World Driving Data	977
<i>Jianle Zheng, Peiwen Zhong, Mário Lino Da Silva, Hongchi Zhou, Yang Song, Yu Shi</i>	
Lithium Battery SOC Estimation Based on MIRUKF	983
<i>Tianhao Dong, Tiankai Yang, Yongliang Liang, Chao Wang</i>	
Degradation Prediction of Proton Exchange Membrane Fuel Cells Based on ITransformer	988
<i>Mince Li, Le Fang, Jiaqiang Tian, Li Wang</i>	
When Sharing Leads to Crowding: Uncovering the Competition Consumption and Heterogeneous Effect in Electric Bike Battery Exchange	993
<i>Ziyan Zhang, Zhuolong Chen, Chengjie Wang, Xiaodong Zhu, Yu Ding, Shiyuan Meng</i>	
The Role of Discharge Curve Knee Point Analysis for Early Li-ion Battery End of Life Forecasting	999
<i>Begoña Ispizua, Sergio Gil-Lopez, Ibai Laña</i>	
State of Charge Estimation for Energy Storage Station Batteries Considering Hysteresis Effect	1005
<i>Hongfu Cao, Fanfan Lin, Xin Zhang, Ruidi Zhou</i>	
Machine Learning Enhanced Predictive Energy Management for Fuel Cell Hybrid Vehicles Reducing Hydrogen Consumption	1010
<i>Mince Li, Siwen Fang, Xi Chen, Jiaqiang Tian, Tianyin Pei, Duo Yang</i>	

State of Health Estimation of Lithium-ion Batteries Based on Transformer-GNN	1016
<i>Rui Tao, Zicheng Fei</i>	
Research on Energy Storage Type Synchronous Condenser with an Electromagnetic Coupler and Control Strategy	1022
<i>Xiaoxi Chen, Rui You, Jianyun Chai, Xinjian Jiang</i>	
LightGBM-based optical encoder error compensation system	1027
<i>Zhang Jiahao, Li Zhibin</i>	
24VDC Solid-State Power Controller for Marine Electrical Systems	1032
<i>Jianfeng Zhang, Zhen Yang, Zhiyang Wen, Xiaoman Zhang, Zhongxin Yu</i>	
Stability-Oriented AC Filter Capacity Design for Hybrid DR-MMC HVDC System with Grid-Forming Offshore WTGs	1037
<i>Yining Wang, Wang Xiang, Haobo Zhang, Jinyu Wen</i>	
Analysis of Issues in Valve-Side Lead Exit Device of UHV Converter Transformer and Suggestions for Test Assessment Improvement	1042
<i>Chao Wu, Xinru Yu, Yun Feng, Huanchao Cheng, Junyu Deng, Yanan Zhang</i>	
Frequency adaptation of repetitive controllers based on Newton interpolation	1047
<i>Min Zheng, Junhao Yuan</i>	
Multi-Microgrid Cooperative Economic Dispatch Based on Improved Particle Swarm Crisscross Optimization Algorithm	1052
<i>Yushi Xue, Mingran Zhao, Shiming Zhang, Jingjing Zheng, Yueqiao Wang, Siya Ma, Huanzhi Fu</i>	
DNN-based On-the-Fly Adaptive Overcurrent Protection for Grid Mode Transitions in AC Microgrids	1057
<i>Pratibha Singh, Arash Safavizadeh, Juri Jatskevich, Niraj Kumar Choudhary, Nitin Singh</i>	
Adaptive Event-Triggered Sliding Mode Load Frequency Control for Islanded Microgrids with Hydrogen Devices Support	1064
<i>Zhuo Zhang, Yajian Zhang, Jie Li, Chen Peng</i>	
Performance Modelling for Waste-Heat Recovery Microgrids with LLM-in-the-Loop Operating-Case Augmentation and an Improved Atom Search Integrated Neural Network	1069
<i>Jiying Chen, Yizhen Wang, Haiming Luo, Rui Zhao</i>	
Capacity Optimization of Combined Cooling Heating and Power Microgrid based on Centralized Busbar Architecture	1076
<i>Yang Xue, Shiwei Liang, Fengwei Qian, Jinyi Tang</i>	
A distributed control strategy for DC microgrids based on second-order cone programming	1082
<i>Yijing Ren, Zhangjie Liu, Mei Su</i>	
Research on the Design of Integrated Microgrid for Smart Buildings Based on Economy and Comfort	1087
<i>Xia Yuancan, Yang Yunhua, Yang Yang, Chen Chao, Huang Jian</i>	
Proximal Policy Optimization based Optimal Energy Management of Microgrid with Diverse Thermostatically Controlled Loads Configurations	1092
<i>Junwu Qian, Yuxin Zhou, Qiang Yang</i>	
Blockchain-based Secure Distributed Economic Dispatch for Microgrids	1100
<i>Yurou Zhu, Xue Li, Zhe Zhou</i>	

Predictive Equipment Risk Assessment using Large Language Models:Fusing Probabilistic Estimation and Impact Assessment	1106
<i>Gao Liu, Junsheng Lin, Jinchao Guo</i>	
Optimal Operation of Smart Microgrids Considering P2P Transactions with Demand Response Aggregators	1112
<i>Hamidreza Arasteh, Anand R., Daogui Tang, Xuan Wang, Anugula Rajamalliah, Josep M. Guerrero</i>	
A Reliability Evaluation Method for Energy Routers Based on Directed Graphs and Minimum Cost Maximum Flow	1118
<i>Zhigang Song, Ling Hong, Chaobiao Lin, Kaiyu Liu, Ruiqi Chen, Ding Wu</i>	
Thermodynamic Simulation Study on Molten Salt Thermal Energy Storage and Heat Exchange Technology for Metal Preheating Applications	1124
<i>Dezhi Xi, Jingye Zhang, Haoyuan Li, Shuwei Li</i>	
Numerical Solution for Convection Heat Transfer of Helium Gas in a Minichannel	1132
<i>Qiusheng Liu, Makoto Shibahara</i>	
Polyhedral Projection Method for Integrating Networked Flexibility from Heating Devices for Power System Operation	1137
<i>Hongyun Feng, Zhenfei Tan, Zheng Yan</i>	
A Review of Configuration, Performance and Applications of High-Temperature Heat Pumps	1143
<i>Yongxiang Zhu, Yang Wu, Long Jiang</i>	
Design of Advanced Adiabatic Compressed Air Energy Storage Plant Coupled with Pumped Hydro Storage	1149
<i>Yumin Peng, Yikai Li, Xuefeng Zhang, Wenhui Wang, Chen Peiying, Ming Lei, Ziyu Wang</i>	
Numerical Investigation of Continuous Helical Baffle Heat Exchangers: Effect of Baffle Count and Helix Angle on Thermal Performance	1155
<i>Symon Feolino, Kim Aaron Bravo, Murshied Aloyod, Jaime Honra</i>	
A Two-layer Decomposition Method for Coordinated Capacity Configuration and Retrofit Planning of Offshore Wind-Storage-Thermal Systems	1162
<i>Zhuangzhuang Li, Bin Han, Xuanbo Zhao, Thomas Wu</i>	
Optimal Design and Dispatch of Wind Power Driven Heating Systems for Green Alumina Production	1170
<i>Liang Tang, Songyi Li, Zuming Liu</i>	
Economic Dispatch of Wind–Solar–Thermal–Storage System Based on PPO Algorithm	1175
<i>Xin Ma, Guohua Yang, Yuanxi Zhang, Zhen Li</i>	
Research on the Construction and On-orbit Evaluation of an Energy Evaluation Model for Multi-task Scenarios of Communication and Remote Sensing Satellites	1181
<i>Xiaojie Zhang, Xingfu Liu, Huijie Liu, Qin Yang, Zhenggong Feng, Weiping Yang</i>	
Method for State Classification and Probability Evaluation of Security and Stability Control Devices Based on Historical Statistical Data	1188
<i>Manli Li, Haibo Xu, Xijian Dong, Jianbing Xu, Qitao Liu</i>	
PGD-DETR: Power Grid Equipment Defect Detection Based on Improved RT-DETR	1193
<i>Yuxiang Zuo, Kai Wu, Wei Lai, Jinjin Ge, Fei Xu, Jianjun Zhou</i>	

Detection of False Data Injection Attacks in Smart Grid: A Honeypot-Based End-Edge-Cloud Collaborative Approach	1198
<i>Haoran Li, Zhongyao Du, Xue Li, Zhe Zhou</i>	
An Impedance-Based Method for Online Preventive Control Generation Against Wide-Band Oscillation	1204
<i>Wang Tu, Feng Luo, Haitao Liu, Jian Zhang, Naishuang Li, Qi Pan</i>	
An Incentive-Based Stackelberg–Nash Game for Demand Response in Vehicle-to-Grid Systems	1211
<i>Han Qin, Zhe Zhou, Zhengshuo Li, Xue Li</i>	
Joint Optimization for Precoding in IRS-Assisted Millimeter-Wave Communication Systems	1217
<i>Ming Gao, Yuanyuan Jiang</i>	
Coordinated Cyber-Physical Attacks Based on Multiple Substation Protection Relays Misoperation	1223
<i>Yige Wang, Gengming Liu, Wenxia Liu, Qingxin Shi</i>	
Design and Implementation of a Synchronized Sampling and Communication Framework for Power System Dynamic Simulator	1229
<i>Yiming Ma, Dongyan Yang, Yikai Li, Peiying Chen, Mingjie Li</i>	
A Wireless Sensor Network Coverage Optimization Algorithm for Power Grid Applications	1236
<i>Shijun Luo, Lu Tang, Jinan Lai, Peng Guo, Ying Li, Liqiang Zhao</i>	
Assessment of Charging Station Impact on Grid Loading Capability Considering Economic Optimization Coefficient	1242
<i>Yuechao Wang, Junchi Gao, Jinjin Liang, Lei Xie, Xiaoming Gu, Kunqi Jia, Qi Wei</i>	
Research on the Application of Sparrow Search Algorithm Based on Evolutionary Strategy in MPPT	1249
<i>Xiaotong Mi, Yong Zhu, Shuangxin Zhu, Bo Geng, Qinglong Feng, Jinpeng Han</i>	
Photovoltaic power prediction based on GRA-PRGO-BP neural network	1255
<i>Qian Li, Qingqing Li, Wangwang Jin</i>	
Maximum Power Point Tracking of Photovoltaic Systems Based on Improved Sparrow Search Algorithm	1263
<i>YuYao Li, LiYa Xu, Xiang Li</i>	
A Novel Dynamic Reconfiguration Method for Photovoltaic Arrays Based on Gene Pairing	1270
<i>Jiangjin Zuo, Feng Li, Xiaokang Liu</i>	
Research on Short-Term Photovoltaic Power Prediction Methods Based on SGMD and LSTM-Informer	1276
<i>Chaomeng Wang, Gang Ma, Jian Ma</i>	
A Medium-Long Term PV Generation Forecasting method based on installed capacity decoupling	1281
<i>Juan Yan, Xudong Wang, Cungang Hu, Shaokun Zou, Peiyang Guo</i>	
Online Parameter Identification of Photovoltaic Power Stations Based on PMU Measured Data	1287
<i>Jiayue Zhang, Huimin Gao, Shihua Jin</i>	
PV MPPT Control Strategy Based on IPSO-IP&O Algorithm	1294
<i>Bolun Ke, Chengxuan Zhao, Hao Liu, Lvjie Zhou</i>	
Low-Frequency Oscillation Analysis with Interactions of Photovoltaic and Distributed Vehicles Based on Frequency Domain Modal Analysis Method	1300
<i>Zeyu Zhang, Xiaoru Wang</i>	

Risk Assessment Method for Voltage Sags Considering Fluctuations in PV and ESS	1306
<i>Shuaibin Shi, Yongli Liu, Xiaowei Yang</i>	
Short-term PV Power Prediction by SE-CNN-GRU Based on Black-Winged Kite Algorithm	1312
<i>Yang Xue, Jinyi Tang, Fengwei Qian, Shiwei Liang, Xinyue Wang, Suhui Yang</i>	
Photovoltaic Module Parameter Extraction Based on Artificial Protozoa Optimizer	1318
<i>Wenhao Lai, Duoduo Liu</i>	
Impedance Modeling and Stability Analysis of Photovoltaic-Storage-Train-Grid System	1324
<i>Zhengan Zou, Chunxu Lin, Xinglai Ge, Huimin Wang</i>	
Emerging technologies in greenhouse energy systems: Photovoltaics and solar thermal utilization	1329
<i>Zhiming Zhang, Bin Guo, Biao Zhou, Kaidi Li, Jianye Wang, Jiufa Chen, George Papadakis</i>	
Control Strategy for Photovoltaic Output Based on Grey Wolf Guided Incremental Method	1339
<i>Lu Shuaiyv, Gao Xin</i>	
A Data-Driven Natural Aging Model of Photovoltaic Module	1343
<i>Nan Wu, Zhihua Li, Haoyu Shi</i>	
Distance Protection Enhancement for PV Outgoing Lines With Tolerance to Fault Resistance	1349
<i>Song Zhang, Yuping Zheng, Zhaoming Wang, Feng Hong, Hao Zhang, Zhisheng Gu</i>	
DF-YOLO: Accurate Detection of Tiny Defects in EL Images of Photovoltaic Modules	1360
<i>Yu Zhu, Qiang Yang</i>	
Research on the Control Strategy of Bidirectional DC-DC Converter in Photovoltaic Storage System	1365
<i>Bo Geng, Yong Zhu, Shuangxin Zhu, Xiaotong Mi, Qinglong Feng, Baojian Chen</i>	
Interaction Effect of Sequential Voltage in Power System with Photovoltaic and Electrified Railway	1371
<i>Xumeng Zhang, Yulong Che, Dengfeng Wang, Xiping Ma, Xianxian Qiu, Binji Zhang</i>	
Optimal Planning of Energy Storage and Wind-PV Virtual Inertia Resources under High Renewable Penetration	1377
<i>Wang Ying, Han Xiaonan, Jiang Weiyong</i>	
Black Start of Offshore DFIG-Based Wind Farms Integrated with DRU-HVDC via Support of Distributed Energy Storage Systems	1383
<i>Jialun Yang, Tao Wang, Lijian Wu, Han Wu, Zheng Li, Junyang Zhang, Cheng Peng, Lei Ba</i>	
Flexible DC Power Flow Control and Stability Analysis Method in MTDC System for Large Scale Offshore Wind Farm Integration	1390
<i>Yuanshi Zhang, Yiwen Feng, Tao Qian, Qinran Hu, Tongxin Xu, Yi Ge, Yan Li</i>	
Wind Power Prediction Based on GJO's TCN-BiGRU-Attention	1397
<i>Yulong Li, Dongrong Jiang, Huimin Huang, Yuyang Ao, Zhenze Yang, Sheng Yang</i>	
CNN-GRU-Attention Hybrid Deep Learning Model for Offshore Wind Power Forecasting with Multivariate Time-Series Data	1402
<i>Bo Lu, Dongsheng Xu, Lin Zhou, Mengdie Zhu, Tongxin Wei, Guangyang Lin, Lidan Chen</i>	
Based on Sparrow Search Algorithm Optimization XGBoost Offshore Wind Power Prediction	1408
<i>Yipeng Zhu, Zehua Li, Hui Tang, Thomas Wu</i>	

Improved Wind Power Prediction based on Privacy Protection and Federated Transfer Learning	1413
<i>Qishan Xu, Fengliang Xu, Peng Wang, Jianghua Hua</i>	
A Two-stage Stochastic Optimisation-based Capacity Optimisation Configuration Method for Wind-Solar-Hydrogen Integrated Energy Systems	1420
<i>Tao Zou, Hao Li, Wenchao Zhu, Changjun Xie, Han Wang</i>	
Optimal Frequency Selection for Medium-Frequency Offshore Wind Power Transmission Systems Based on DRU Parallel Auxiliary MMC	1426
<i>Yi Lu, Haokai Xie, Xiaojun Ni, Yilei Gu, Jiateng Wang, Wenyao Ye, Zheren Zhang, Zheng Xu</i>	
A Lag-Free Adaptive Extraction Method for Wind Power Grid Integration Based on Bayes-CNN-LSTM and Variable Parameter Kalman Filter	1433
<i>Zicheng He, Guangchen Liu, Guizhen Tian, Jianwei Zhang, Sufang Wen, Dahai Guo, Yan Wang Yaojie Dong</i>	
Cooperative Control Method of Wind Turbine and SVG for Restraining AC Overvoltage of Wind Farm via LCC-HVDC Grid-Connected System	1439
<i>Huifan Xie, Hongtao Liu, Fan Xie, Qian Ma, Bao Li, Chao Luo</i>	
Control and Coordination of DC Collection Systems for Large-Scale Offshore Wind Integration	1446
<i>Yijing Chen, Jianbo Su, Xiaojiang Guo, Chunhua Li</i>	
EFAMamba: An Efficient Feature Aggregation Model based on Mamba for Accurate Wind Power Forecasting	1453
<i>Xiangyue Liu, Hongwei Zhao, Lei Liu, Xue Dong, Qiuju Chen, Bin Li</i>	
Source-grid-storage Planning Considering Inertia Distribution Constraints for High-Penetration Renewable Power Systems	1459
<i>Liang Mao, Yu Shan, Xiang Ma, Leiyan Lv, Zhen Wang</i>	
Optimal Configuration and Operation of Hybrid Renewable Energy Systems: A Bi-Level Approach to Scheduling and Storage	1465
<i>Yuewen Zhang, Feng Hu, Mengran Zhou, Zhenguan Cao</i>	
Profit Sharing Mechanism Design for Renewable and Storage Collaboration Across Multi-voltage Channels	1471
<i>Chupeng Xiao, Yuan Lu, Kui Wang, Haijing Zhang, Jing Xu, Liangliang Zhu</i>	
Optimal Scheduling Method of Multi-energy Virtual Power Plant Considering the Consumption of Renewable Energy	1476
<i>Xiaoqing Guo, Lu Jin, Xinxing Xu, Yi Li, Ying Le</i>	
Enhancing the Climate Resilience of High-Renewable Penetration Power Systems: Long-and Short-Term Strategies	1481
<i>Yuqiong Zhang, Qiang Zhao, Ziwei Chen, Chao Zhang</i>	
A Generalized Aggregation Modeling Method for High-Dimensional Impedance Networks in Renewable Energy Clusters	1486
<i>Yan Li, Ye Zhang, Wangqianyun Tang, Ziqian Yang, Lei Huang, Tian Hou, Ying Huang, Guoteng Wang</i>	
Advanced Differential Privacy-Preserving Control Strategy for Distributed Renewable Energy Systems	1491
<i>Huijie Yu, Yandong Chen, Zhijie Lian, Zhiwei Xie, Lei Ren</i>	

Research on Centralized Frequency-Distributed Voltage Coordinated Control Strategy for Islanded Renewable Energy Delivery via Flexible HVDC System	1497
<i>Chunhua Li, Yijing Chen, Renqi Su, Cheng Peng, Wangan Fu, Junyang Zhang, Zheng Li, Jianping Lin Haoran Tang</i>	
Voltage Sag Mitigation Technology for Renewable Energy Power Stations Based on Fast Switching	1503
<i>Tao Liu, Bin Han, Chao Zheng, Zutao Xiang, Zhibing Li, Yalin Bian, Bo Niu</i>	
Coordinated Configuration and Operation of Large-scale Renewable Energy Bases Integrating Wind, Solar, Thermal, and Storage based on Multi-objective Optimization	1508
<i>Xinrong Yan, Rong Huang, Chenghang Zheng, Yurong Xie, Kai Zhang, Yuxuan Li</i>	
A Survey on Optimization, Pricing, and Market Design for Power & Energy Systems under Carbon Pricing Coupling	1517
<i>Tiantian Chen, Danning Lin, Lin Luo, Jing Liu, Fan Cheng, Fengqing Du, Chen Wang, Donghan Feng</i>	
Reinforcement-Learning based Bidding Strategies for a Hybrid Energy Storage System in a Joint Energy and Frequency Regulation Market	1523
<i>Zhao Zhang, Dongsheng Zhu, Kang Chen, Jingwen Zhou</i>	
Congestion Management Mechanism for Inter-Regional Multi-Channel Transactions among Electricity Markets	1529
<i>Xudong Jia, Xiaodong Chen, Zhe Xu, Jiang Wang, Yuxuan Wang, Changyun Wang, Tiance Zhang</i>	
Risk-Constrained Optimization of Inter-City Power Transactions in Regional Electricity Market with Renewable Integration Considerations	1534
<i>Fubin Liu, Qiyuan Liu, Xiaogang Li, Min Wu, Yanjing Yang, Donghan Feng</i>	
Analysis of Coordination Strategies between Large-Scale Power Users' Direct Participation in Inter-Provincial Spot Markets and Grid-Agent Electricity Procurement	1540
<i>Bo Zhou, Shunfu Lin, Zhiqiang Luo, Shuyan Zhang, Guodong Huang, Jianzhang Qu</i>	
Research on Spot Market Trading Mechanism Incorporating the Sustainable Pricing Settlement Methodology for Renewable Energy	1546
<i>Zhiren Zhang, Hang Zhan, Jingman Ma, Fuzhi Xiong, Jiang Wan, Quan Che, Yu Lei</i>	
A Comparative Study on the Differentiated Value and Synergistic Effects of Industrial and Residential Prosumer Flexibility Considering Carbon Flow	1551
<i>Yudan Hou, Xianlong Li, Chen Shi, Da Xie</i>	
A Look-ahead Optimal Bidding Strategy for Wind-PV-Pumped Storage-Battery Hybrid System in Energy-Reserve-Frequency Regulation Ancillary Service Markets	1557
<i>Fei Wang, Jun Xie, Jiaqi Chang, Shuo Feng, Zhangwei Wang, Denghui Fu</i>	
Analysis of the Mechanism for Energy Storage Participation in the Frequency Regulation Market of China Southern Power Grid	1563
<i>Zhicheng Wang, Ziheng Wei, Ke Tan, Disi Mai, Yongyin Zhang, Yuxuan Zhao</i>	
Price Prediction Model for Energy Storage Systems' Bidding Strategies based on LSTM Network	1569
<i>Fei Chen, Bing Zhou, Dongsheng Zhu, Kang Chen</i>	
An Optimal Pricing Approach for Time-of-use Tariff Mechanism Based on Hierarchical Clustering and Artificial Hummingbird Algorithm	1574
<i>Xiejun Du, Junjie Li, Kun Wang, Yan Shen</i>	

Benefit Evaluation Method for Planned Coal Power in the New Power System	1580
<i>Yuankang He, Pei Sun, Jiaqi Tao, Lixia Fan, Xiaoqiang Sun, Jing Liu, Xiaoying Zhu</i>	
Short-circuit Stress Analysis and Evaluation of 500kV Transformer Windings	1586
<i>Shijun Wang, Fan Yang, Pengbo Wang, Yuchen Huang, Fanhan Liu</i>	
Linear Optimization Strategy for Stability and Economics of High Renewable Penetration Grids	1592
<i>Yalong Sun, Dongliang Deng</i>	
Real-Time Optimization of EV Charging Strategy with Battery and Grid Constraints via Improved Particle Swarm Optimization	1604
<i>Bo Cai, Jin Zhang, Mai Zhang, Shu Zheng</i>	
Peak Valley Regulation Optimization for Electric Vehicle Charging Stations Based on a Multi-Constraint Ant Colony Optimization Algorithm	1610
<i>Chunyu Yang</i>	
Electric Vehicle Charging Station Power Dispatch Optimization Based on Individual-Collaborative Equilibrium Allocation	1615
<i>JiaWei Shi, HuanHuan Fang, YanYan Xu, Lu Zhang, JiaLe Xu, ShuYu Wu</i>	
Reinforcement Learning on Large-Scale Graphs for EV Charging Station Deployment	1621
<i>Xiaofei Fan, Yujie Wang</i>	
Secondary Frequency Control Strategy for Battery Swapping Stations Based on Aggregated Flexibility of Electric Vehicles	1627
<i>Chenchen Fan, Zhe Zhou, Zhengshuo Li, Shengqi Zhang</i>	
Evaluation Method of Provincial Electric Vehicle Adjustable Potential Considering Temperature Effect	1633
<i>Jie Ji, Dinghao Luo, Fuqiang Li, Yanghe Gao, Mingliang Liang, Qifang Chen</i>	
Dynamic Route Planning for Electric Vehicle Charging and Discharging Based on Road-Network and Power-Grid Coupling	1639
<i>Yifan Pan, Liangyin Shen, Qiangqiang Wang, Xuanchen Li, Yuhan Zhou</i>	
Cluster Regulation Strategy of Electric Buses for Distributed Power Supply of Power Grid	1645
<i>Xuanrong Quan, Qingxin Shi, Chengfang Huo</i>	
Privacy-Preserving Secondary Frequency Regulation for Electric Vehicles Based on Mixed Encryption Scheme	1652
<i>Yaqi Fan, Chenchen Fan, Zhengshuo Li, Xue Li, Shengqi Zhang, Zhe Zhou</i>	
Study on the performance of solar-ice residential heating system	1657
<i>Xu Zhenjun, Sun Pengxiang, Kong Chi, Wang Hao, Li Qingqing</i>	
Deep Reinforcement Learning-based Energy Management Strategy for BESS Clusters	1664
<i>Hailong Yu, Shengqi Zhang, Weifen Yang</i>	
Optimization Method of Seaport Cascade Logistics-Energy System	1670
<i>Chonghe Gao, Tiankai Yang, Yongliang Liang, Chao Wang</i>	
Implementation of a Wave Energy Harvesting Device with a Semi-Cylindrical Hybrid TENG-EMG System for Wave Energy Harvesting with IoT Application	1675
<i>Joshua Noel M. Enriquez, Uriel Havin M. Payao, Engr. Joseph Bryan Ibarra</i>	

Research on Urban Feeder-Level Energy Storage Station Planning Based on Multi-Objective Optimisation	1681
<i>Tianxiang Xie, Yuanyuan Hu, Xiang Pu, Keteng Jiang, Yujie Yang, Yang Zhou, Xin Chen, Huazhi Fan Bin Zheng</i>	
The Role and Positioning of Coal Power in Northwest China in the New Power System	1687
<i>Yuankang He, Jiaqi Tao, Pei Sun, Lixia Fan, Xiaoqiang Sun, Jing Liu, Xiaoying Zhu</i>	
Optimal Scheduling Method of Cascaded Hydropower Plants Considering the Contradiction Between Supply Guarantee and Flood Prevention	1693
<i>Yonglong Zhao, Quan Qing, Yuxuan Xiao, Tu Xu, Xiangyi Chen, Lingyun Wu</i>	
A Proportional Hybrid Control Strategy Based on Structure-Following Network Control	1700
<i>Shuxin Song, Jie Liu, Ke-Jun Li, Kaiqi Sun</i>	
Analysis and Optimization of a Transcritical Carbon Dioxide Energy Storage System Integrated with LNG Cold Energy and Carbon Capture Cycle	1706
<i>Ruiqi Wan, Jingxuan Xu</i>	
Low Carbon Oriented Energy Dispatch of Multi-Energy Microgrid with Flexible Demands	1712
<i>Yuxin Zhou, Junwu Qian, Qiang Yang</i>	
Analysis of Control Principles for SCO ₂ Reactor System Based on Modelica	1720
<i>Yuchen Niu, Yuandong Zhang, Minjun Peng, Genglei Xia</i>	
A Bi-level Optimization Framework for CCUS Pipeline Networks under Uncertainty	1728
<i>Zhuojun Yang, Xingsheng Wei, Jie Hu, Hongqiang Zhang, Menglian Zheng</i>	
Adaptive Multi-path Parallel Optimization Method for Distributed Energy Management	1734
<i>Yongle Dong, Xiaojun Wang, Fangyuan Si, Lukun Ge, Zhishuang Wang, Xihao Wang</i>	
Study on Low-Carbon Data Centre Cooling Configuration Based on Hydrogen Internal Combustion Engine Waste Heat Recovery Refrigeration Technology	1740
<i>Jin Qian, Hui Chen, Jian Wang, Chunyang Gong, Zhixin Wang, Shousong Jin</i>	
Optimizing Smart Building-Grid Interaction with Carbon Trading and Demand Response	1746
<i>Siyuan Chen, Da Xu, Zhaoyan Wang, Zhenchong Wu, Shufeng Dong</i>	
Data-Driven Surrogate Modeling for Accelerated Multi-Objective Optimization of Liquid CO ₂ Energy Storage: A Comparative Study of Neural Networks and LightGBM	1755
<i>Buzhi Huang, Jingxuan Xu</i>	
Dynamic Modeling of Aircraft Fuel Consumption Based on Local-Segment Dual Attention Network	1761
<i>Xian Wu, Jiawen Ding, Xuhui Li, Yan Liu, Zixiang Fei, Minrui Fei</i>	
A Data-Driven Fuel Consumption Prediction Model for CPP Ships Using Improved BP Neural Network and Noise Filtering	1768
<i>Saihao Zhu, Guichen Zhang, Huanglong Fu, Wei Chen, Zhongdong Gui</i>	
Prediction of Primary Airflow Zones in Residential Central Air-Conditioned Spaces Based on Feedforward Neural Network	1773
<i>Yuhui Peng, Mei Wang, Lianyu Shan, Qingzhuang Wu, Jiaqi Sun, Ruolin Li, Shanshan Cai, Junlong Xie</i>	

Research on Defect Identification Methods for Oil-Immersed Paper Insulated Bushings based on Oil Pressure Sensing	1779
<i>Dingqian Yang, Yadi Xie, Manman Yuan, Jiabao Du</i>	
A Deep Reinforcement Learning Framework for Optimizing Data Center Cooling Systems	1789
<i>Wei Yang, Yuming Xu</i>	
A Generative Adversarial Network and Inverse Residual Multi-scale Attention Block-Based Algorithm for Defocus Deblurring in Power Scenarios	1795
<i>Xiong Liu, Juan Zhang, Qiushi Cui, Yingyue Zhou, Qian Wang, Zining Zhao, Yong Li</i>	
Artificial Intelligence-Driven Strategies for Enhancing Power System Resiliency Against Cyber-Physical Disturbances	1803
<i>Boyu Wang, Aliasghar Baziar, Mohammadreza Askari</i>	
An Efficient Identity Authentication Method for Power Terminal Based on Blockchain and Zero-knowledge proof	1809
<i>Zilong Han, Chaoqun Kang, Wanqiao Wang, Yuling Li</i>	
Research on the Application of Artificial Intelligence in the Digitalization and Intelligent Operation and Maintenance of Power Equipment	1816
<i>Wang Yaixin, Jia Lin, Xue Qifan</i>	
Automatic Code Generation for Power System Stability Control Strategies from a Domain-Specific Language	1825
<i>Qitao Liu, Haibo Xu, Jianbing Xu, Xijian Dong, Manli Li, Jinhua Ren, Jie He</i>	
Mobile Ultraviolet Imaging for Intelligent Partial Discharge Identification	1830
<i>Chunxiang Mao, Qingjie Zhao, Kangyu Pei, Yiyu Li</i>	
Influence of 10kV Overhead Line Conductor Arrangement on Power Frequency Electromagnetic Field Distribution and Safety Analysis of Maintenance Conditions	1835
<i>Ting Li, Yinlong Wang, Daping Liu, He Xu, Shi Su</i>	
IGBT Turn-off Time Detection Method Based on High-frequency Modeling of System Loads	1840
<i>Guozhong Wang, Guoqing Xu, Lingfeng Shao, Xiaolong Lin</i>	
An Improved Mask-RT-DETR-Based Approach for Detecting Plain Conductor Defects in Distribution Lines	1846
<i>Jianjun Zhou, Yuxiang Zuo, Kai Wu, Wei Lai, Jinjin Ge, Fei Xu</i>	
Toward Reliable Distribution Loss Assessment: Challenges in Existing Data Infrastructure	1852
<i>Ying Zhao, Zhe Chen, Zhuo Zhang, Yuxin Lu, Ying Zhao, Xipeng Liu</i>	
Multi-Stage Attack-Defense Game in Cyber-Physical Power Systems Based on Isolation Strategy and Risk Assessment	1856
<i>Runsie Ge, Dajun Du, Yi Zhang, Junlin Yang</i>	
Research on the Forced Oscillation of Power System Based on Energy Functions	1862
<i>Lei Yun, Fangze Wu, Yiyang Gao, Yuhong Zhang, Yilang Jiang, Jingqi Yang, Lining Su, Zeyu Zhang, Dan Huang</i>	
Power System Post-Disaster Unit Start-Up Strategy Considering Dynamic Frequency Regulation	1868
<i>Shubo Hu, Zhaowei Ling, Dai Cui, Jiayi Li, Xingyu Liu, Gengfeng Li, Yiheng Bian</i>	

Integrated Optimal Allocation of the Pulverizing System Considering Coal Mill Specific Energy Consumption	1874
<i>Zhong Chenkang, Sun Yuzhen, Lin Xiaobin, Song Feiyu</i>	
Multi-Objective Optimization and Economic Operation Strategy of Hybrid Energy Storage System for Industrial Load-Side	1880
<i>Han Wu, Xiaohan Fang</i>	
Scheduling Optimization of Multi-time-scale Integrated Energy Systems Considering Carbon price and Carbon Penalty Factors and Hybrid Energy Storage	1886
<i>Mingjie Huang, Han Wang, Changjun Xie, Wenchao Zhu</i>	
Performance evaluation of a novel hybrid system integrating LAES with Brayton Cycle for LNG cold energy recovery	1892
<i>H. Si, Q. Hong, L. Jiang</i>	
Optimal Scheduling of an Integrated Energy System for Electric Tea Processing Considering Demand Response	1898
<i>Canshu Qiu, Peng Dou, Maoxiang Cheng, Bing Hong, Keguang Yu, Zhenfeng Lin, Han Zhang, Zheng Li</i>	
Bi-level Optimization for Regional Integrated Energy System Planning with Hydrogen Demand	1908
<i>Zhouhan Wang, Xiaojie Lin</i>	
Optimal Regulation of Integrated Energy Systems Based on Refined Modelling	1914
<i>Huirong Zhao, Peixi Zhao, Daogang Peng</i>	
Coordinated Intra-Day and Seasonal Hydrogen Storage Optimization for a Wind–Solar–Hydro Integrated Energy System	1920
<i>Xiongli Wang, Xiaoyi Ding, Chenyan Mao, Zhikun Shi</i>	
Collaborative Control of Multi-regional Hydrogen Energy Supply Chains Under Demand Uncertainty	1926
<i>Wenchao Zhao, Yajian Zhang, Enzhi Cao, Chen Peng</i>	
Reinforcement Learning-Based Coordinated Optimization of Multi-Energy Flows in a Micro-Energy Grid with Hydrogen Storage	1932
<i>Ziyan Li, Fuliang Ma, Minghao Zhao, Yufei Zhou</i>	
Optimal Scheduling of Alkaline Power-to-Hydrogen Systems with Extended Operation Flexibility and Integrated Demand Response	1939
<i>Yuhan He, Wenhao Jia, Tao Ding, Yuting Zhu, Mengyuan Yang, Mengke Liao</i>	
Design and Operational Optimization of a Hydrogen-Based Distributed Integrated Energy System Incorporating Vortex-Tube Residual Pressure and Energy Recovery	1945
<i>Shuixin Zhu, Xiaojie Lin, Wei Zhong</i>	
Coordinated Operation of Integrated Power, Natural Gas, and Hydrogen Systems with Detailed Modeling of Electrolyzers	1950
<i>Yingyin Gong, Sheng Chen, Zhinong Wei, Manyun Huang</i>	
The Maximum Power Solution of Traction Power Supply System Based on Continuation Power Flow	1955
<i>Jiesheng Xiao, Xiaoru Wang</i>	
Optimization Operation Method for Electro-Hydrogen Hybrid Energy Storage Adapted to Floating Wind Turbine Integration	1960
<i>Huiying Wang, Xiaolin Ge, Zixu Ren, Ruanming Huang, Wei Xie, Yaoliang Zhu</i>	

Economic Analysis of Renewable Energy-Based Systems Considering Variations in Hydrogen Energy Diversification Technologies	1966
<i>Jiaying Chen, Hongkun Lv, Liwei Ding, Shuixin Zhu, Yuting Zhou, Xiaojie Lin</i>	
A Multi-Time-Scale AGC Frequency Regulation Optimal Scheduling Method for Virtual Power Plants Based on PPO Algorithm	1971
<i>Jing Wang, Youshu Yang, Xiangyang Mao, Qiqi Zhang, Jie Shi, Youlin Ma, Jiaju Sun</i>	
Research on LNG Cold Energy Power Generation Systems Based on Annual Output	1977
<i>Wei Chen, Tao Huang, Wensheng Lin</i>	
Predictive Control for Wet Desulfurization System Based on Informer-BiLSTM and Transfer Learning	1983
<i>Hui Pan, Fanyu Chu</i>	
Research on Grid Investment Benefit Prediction Model Based on PCA-LASSO-GA-ELM	1990
<i>Jing Xia, Xiaobin Xu, Shihao Shi, Jinchao Li</i>	
Adaptive Self-Attention Mechanism for Dynamic State Fluctuation Prediction in Integrated Energy Systems	1997
<i>Chongshuo Yuan, Jianxiong Qiu, Hu Wang, Lijun Zhang, Xiaojie Lin, Wei Zhong</i>	
Research on the Scheduling Optimization of Air Conditioning Energy Storage Systems under the Context of the New Power System	2002
<i>Han Wu, Zhongyin Fan, Ling Yang, Xiaoyue Zhu, Xiaodan Min, Dizhan Xiong, Xichen Liu, Jinhua Chen</i>	
Simulation Research on Enhanced Charge/Discharge Protection Strategy for Hybrid Energy Storage Systems in Building PEDF System	2009
<i>Tian Mao, Qiang Wei, Jianqi Xu</i>	
Research on the Optimization of Control Parameters for Power Oscillation Scenarios in Energy Storage Power Stations	2018
<i>Chuchu Wu, Feng Xu, Qi Lin, Wentao Lv, Yangzhen Shen, Liyun Hua</i>	
Research on the Development of New Energy Storage Technologies Supporting the Construction of a New Power System	2023
<i>Yang Xu, Yiming Ma, Long He, Yilan Tang, Wenqian Ou, Dahao Li, Junhao Zhou, Ziming Huang</i>	
Wide-Area Decentralized Energy Storage Station Clustering Method for Power System Dispatching	2031
<i>Yunchao Sun, Yingqiang Han, Yu Dong, Jun Yang, Kexi Qian, Wei Hu</i>	
Optimization of renewable energy utilization in data centers based on spatio-temporal task migration	2037
<i>Xiang Yuan, Chutian Yu, Lijun Zhang, Chenlin Gu, Meijin Gao, Jiarui Yang, Junjie Sun, Hao Zhang</i>	
AGC Strategy for Energy Storage Considering Degradation and Frequency Regulation Revenue	2045
<i>Weifen Yang, Shengqi Zhang, Hailong Yu</i>	
Optimal Configuration Method of Pumped Storage in Multi-Infeed HVDC Receiving-End Power Grid	2051
<i>Ying Huang, Guoteng Wang, Ling Xu, Xiaohu Zhang</i>	
Design of an Energy Storage Operation Configuration Display Platform for Frequency Regulation Services	2056
<i>Ming Yu, Hengwang Zhou, Zhen Zhang, Tongqing Song</i>	