

ISSN 0258-8013
CODEN ZDGXER

中国电机工程学报

旬刊

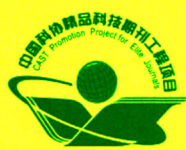
第 32 卷 第 31 期

Proceedings of the CSEE

THREE TIMES A MONTH

Vol.32 No.31

(特别关注: 电力系统及其自动化)



11月上旬
2012
2012-11-05 出版

ISSN 0258-8013



中国电机工程学会主办
THE CHINESE SOCIETY FOR ELECTRICAL ENGINEERING

万方数据

PROCEEDINGS OF THE CHINESE SOCIETY FOR ELECTRICAL ENGINEERING

Vol.32 No.31 (Ser. 438)

Nov. 5, 2012

CONTENTS (Power Systems and Automation)

Extended Summary	(S1~S26)
• Electric Vehicles and Their Intelligent Charging and Discharging •	
Study on Charging Load Modeling and Coordinated Charging of Electric Vehicles Under Battery Swapping Modes	LUO Zhuowei, HU Zechun, SONG Yonghua, XU Zhiwei, JIA Long (1)
Coordination of Electric Vehicle Charging to Minimize Active Power Losses	ZHAN Kaiqiao, SONG Yonghua, HU Zechun, XU Zhiwei, JIA Long (11)
Electric Vehicle Battery SOC Estimation Based on Multiple-model Adaptive Kalman Filter.....	WEI Kexin, CHEN Qiaoyan (19)
Study on Capacity and Site Planning of Large-scale Centralized Charging Stations	GAO Ciwei, ZHANG Liang, XUE Fei, LIU Hongchao (27)
Research on Optimal Operation of Battery Swapping and Charging Station for Electric Buses	YANG Yuexi, HU Zechun, SONG Yonghua (35)
Evaluation and Solutions for Electric Vehicles' Impact on the Grid.....	TIAN Liting, ZHANG Mingxia, WANG Huanling (43)
Topology of Bi-directional Converter Used for Energy Interaction between Electric Vehicle and Grid	BAO Yan, JIANG Jiuchun, ZHANG Hongtao, NIU Liyong, ZHANG Weige (50)
The Reserve Trading Model Considering Vehicle-to-grid Reserve	ZHANG Qian, SHI Lefeng, REN Yulong, ZHOU Luowei, LUO Quanming (59)
Design and Implementation of Simulation Software for Electric Vehicle Charging Behavior Based on Multi-agent System	GAO Ciwei, DONG Chuanyan, XUE Fei (68)
• Basic Research of Defense Power Transmission Equipment Failure Caused the Power Grid Outage •	
Influence of Oxygen and Moisture on Feature Concentration Ratios of SF ₆ Decomposition Products Under Partial Discharge	TANG Ju, LIANG Xin, YAO Qiang, HE Jianjun, LIU Fan (78)
DFT Calculations on the Adsorption of Components of SF ₆ Decomposed Under Partial Discharge Onto Carboxyl Carbon Nanotubes.....	ZHANG Xiaoxing, DAI Ziqiang, MENG Fansheng, QIU Yinjun, TANG Ju (85)
Canonical Correlation Analysis of Dissolved Gas Production With Partial Discharges in Oil Paper Insulation	CHEN Xi, CHEN Weigen, WANG Youyuan, DU Jie (92)
Impact of Cellulose Aging on Moisture Equilibrium of Oil-pressboard Insulation	WANG Wei, MA Zhiqing, LI Chengrong, WANG Xin (100)
Study on Potential and Electric Field Distributions Along a Cylindrical Insulator Covered With Ice Before Arc Inception	SHU Lichun, ZHANG Shikun, JIANG Xingliang, HU Qin, WANG Shijing, YUAN Wei (106)
Experimental Research on Power Frequency Arc Movement Process of 110 kV Composite Insulators in Rod Shape Parallel Gap Lightning Protection Devices.....	SIMA Wenxia, ZHANG Zhi, YANG Qing, YUAN Tao, et al (114)
Effect of Electrical Test Methods on DC Pollution Flashover Performance of Porcelain and Glass Insulators	JIANG Xingliang, DONG Bingbing, ZHANG Zhijin, HU Jianlin, HU Qin (122)
Comparison of AC Icing Flashover Performance for 110 kV Composite Insulators	JIANG Xingliang, DONG Bingbing (128)
• Power System Operation and Planning •	
Loading Margin Sensitivity Computation With Mixed Block Elimination (BEM) Algorithm in Voltage Stability Analysis	YANG Xiaoyu, ZHOU Xiaoxin, LI Lixin (134)
Brittleness Source Identification Model for Cascading Failure of Complex Power Grid Based on Brittle Risk Entropy	LIU Wenying, WANG Jiaming, XIE Chang, WANG Weizhou (142)
Multi-objective Generation Dispatching for Wind Power Integrated System Adopting Improved Biogeography-based Optimization Algorithm.....	CHEN Daojun, GONG Qingwu, QIAO Hui, ZHAO Jian (150)
Dispatch Strategy for Carbon Capture Considering Day Index Constraints in Carbon Emission Reduction	LI Xueping, LU Zhigang, Wang Haorui, CHENG Huilin (159)
Quantifying Harmonic Responsibilities of Multiple Harmonic Sources Based on M-estimation Robust Regression	SUN Yuanyuan, YIN Zhiming (166)
• Power System Relaying, Communication and Automation •	
Optimal Selection of Wide-area Signal for Power System Damping Controllers Based on Contribution Factors	MA Jing, WANG Tong, WANG Shangxing, WANG Zengping, YANG Qixun (174)
Research on Identification of Partial Transient Saturation in Current Transformers	BI Daqiang, FENG Cunliang, GE Baoming (184)
• High Voltage Engineering •	
Calculation of Lightning Induced Overvoltage on Overhead Distribution Lines	BIAN Kai, CHEN Weijiang, LI Chengrong, SHEN Haibin (191)
Design and Application of Air-borne Optoelectronic Stabilized Pod Systems for Power Line Inspection Applied in Cold Areas	XU Jinkai, ZHANG Lizhong, JIN Jiacheng, WANG Chenggang, ZENG Qi (200)

中国电机工程学报

ZHONGGUO DIANJI GONGCHENG XUEBAO

第 32 卷

第 31 期 (总第 438 期)

2012 年 11 月 5 日

目 次

(电力系统及其自动化)

英文概述一览 (S1—S26)

• 电动汽车与智能充放电 •

- 换电模式下电动汽车电池充电负荷建模与有序充电研究.....罗卓伟, 胡泽春, 宋永华, 徐智威, 贾龙 (1)
- 以降损为目标的电动汽车有序充电优化.....占恺桥, 宋永华, 胡泽春, 徐智威, 贾龙 (11)
- 基于多模型自适应卡尔曼滤波器的电动汽车电池荷电状态估计.....魏克新, 陈峭岩 (19)
- 集中型充电站容量规划模型研究.....高赐威, 张亮, 薛飞, 刘红超 (27)
- 电动公交充换电站的优化运行研究.....阳岳希, 胡泽春, 宋永华 (35)
- 电动汽车对电网影响的评估和解决方案.....田立亭, 张明霞, 汪免伶 (43)
- 电动汽车与电网能量交互的双向变流器拓扑研究.....鲍彦, 姜久春, 张宏韬, 牛利勇, 张维戈 (50)
- 计及 V2G 备用服务的交易模式.....张谦, 史乐峰, 任玉珑, 周维维, 罗全明 (59)
- 基于多代理系统的电动汽车充电行为仿真软件设计与实现.....高赐威, 董传燕, 薛飞 (68)

• 防御输变电装备故障导致电网停电事故的基础研究 •

- 微水微氧对 PD 下 SF_6 分解特征组分比值的影响规律.....唐炬, 梁鑫, 姚强, 何建军, 刘帆 (78)
- 羧基碳纳米管吸附 SF_6 放电分解组分的仿真计算.....张晓星, 代白强, 孟凡生, 裘吟君, 唐炬 (85)
- 油纸绝缘局部放电与油中产气规律的典型相关分析.....陈曦, 陈伟根, 王有元, 杜杰 (92)
- 纤维素老化对油纸绝缘水分平衡的影响.....王伟, 马志青, 李成榕, 汪鑫 (100)
- 覆冰圆柱绝缘子起弧前电位与电场分布研究.....舒立春, 张仕焜, 蒋兴良, 胡琴, 汪诗经, 袁伟 (106)
- 110 kV 复合绝缘子棒形并联间隙工频电弧疏导过程的试验研究.....司马文霞, 张智, 杨庆, 袁涛, 等 (114)
- 试验方式对瓷和玻璃绝缘子串直流污闪特性的影响.....蒋兴良, 董冰冰, 张志劲, 胡建林, 胡琴 (122)
- 110 kV 复合绝缘子串交流冰闪特性的比较.....蒋兴良, 董冰冰 (128)

• 电力系统运行与规划 •

- 利用混合块消去算法的电压稳定负荷裕度灵敏度计算.....杨小煜, 周孝信, 李立新 (134)
- 基于脆性风险熵的复杂电网连锁故障脆性源辨识模型.....刘文颖, 王佳明, 谢昶, 王维洲 (142)
- 采用改进生物地理学算法的风电并网电力系统多目标发电调度.....陈道君, 龚庆武, 乔卉, 赵简 (150)
- 考虑碳减排口指标约束的碳捕集调度策略.....李学平, 卢志刚, 王浩锐, 程慧琳 (159)
- 基于 M 估计稳健回归的多谐波源责任区分.....孙媛媛, 尹志明 (166)

• 继电保护、通信及自动化 •

- 基于贡献因子的广域信号优选方法.....马静, 王彤, 王上行, 王增平, 杨奇逊 (174)
- 电流互感器局部暂态饱和识别的研究.....毕大强, 冯存亮, 葛宝明 (184)

• 高电压技术 •

- 架空配电线路雷电感过电压计算研究.....边凯, 陈维江, 李成榕, 沈海滨 (191)
- 高寒区机载电力巡线光电稳定吊舱系统设计及应用.....许金凯, 张立中, 金珈成, 王城钢, 曾奇 (200)

期刊基本参数: CN11-2107/TM * 1964 * S * A4 * 208 * zh * P * ¥25.00 * 4000 * 26 * 2012-11 版权所有 未经许可不得转载及上网