**《华电技术》2020年总目次**

**2019年42卷1期**

**专题综述**

1. 尤佳,王润芳,马大卫,等.基于合肥市 PM2.5 源解析的电能替代效果评估[J].华电技术, 2019,42(1):1-7.

 YOU Jia,WANG Runfang,MA Dawei,et al.Assessment of alternative energy based on the source apportionment of PM2.5 in Hefei City[J].Huadian Technology, 2019,42(1):1-7.

1. 张春平,秦川,杨岗,等.失活 SCR 脱硝催化剂处理技术进展[J].华电技术, 2019,42(1):8-14.

ZHANG Chunping,QIN Chuan,YANG Gang,et al.Development of processing technology for deactivated SCR denitration catalyst[J].Huadian Technology, 2019,42(1):8-14.

1. 王永林,王云,纪万青,等.基于多元状态估计技术和相似性理论的环保岛设备劣化预警方法[J].华电技术, 2019,42(1):15-19.

WANG Yonglin,WANG Yun,JI Wanqing,et al.Prognostic method for SRS equipment deterioration based on multivariate state estimation technology and similarity theory[J].Huadian Technology, 2019,42(1):15-19.

1. 张山山,吴巧玲,王仁雷,等.基于“互联网 +”的火电厂环保智能监管系统研究与应用[J].华电技术, 2019,42(1):20-24.

ZHANG Shanshan,WU Qiaoling,WANG Renlei,et al.Research and application of environmental intelligent supervision system for thermal power plants based on “Internet +”[J].Huadian Technology, 2019,42(1):20-24.

1. 高正来,周国山,沈东,等.湿式电除尘器与氨法脱硫协同脱除多种污染物效果研究[J].华电技术, 2019,42(1):25-28.

GAO Zhenglai,ZHOU Guoshan,SHEN Dong,et al.Study on synergistic removal effect on multiple pollutants made by WESP and ammonia desulfurization system[J].Huadian Technology, 2019,42(1):25-28.

**研究与开发**

1. 刘星,崔双喜.孤岛与重构相配合的配电网故障恢复策略[J].华电技术, 2019,42(1):29-34.

LIU Xing,CUI Shuangxi.Fault recovery strategy for distribution network with isolated island and reconfiguration[J].Huadian Technology, 2019,42(1):29-34.

1. 陈涛,吕松,任廷林,等.基于最小二乘支持向量机的周用电量预测方法[J].华电技术, 2019,42(1):35-40.

CHEN Tao,LYU Song,REN Tinglin,et al.Prediction method for weekly electricity consumption based on LSSVM algorithm[J].Huadian Technology, 2019,42(1):35-40.

1. 张莉,赵进科.漂浮式光伏电站自适应水位变化的防护系统设计[J].华电技术, 2019,42(1):41-44.

ZHANG Li,ZHAO Jinke.Design of floating photovoltaic power plants protection systems adapting to water level[J]Huadian Technology, 2019,42(1):41-44.

1. 冯广杰,王智勇,闫志辉,等.双母单分接线方式下母线差动保护逻辑完善方案[J].华电技术, 2019,42(1):45-49.

FENG Guangjie，WANG Zhiyong，YAN Zhihui，et al.An improvement scheme for busbar differential protection logic applied in single-sectionalized double-busbar connection mode[J].Huadian Technology, 2019,42(1):45-49.

1. 孙振宇,沈明忠.基于微生物法处理循环冷却水的试验研究[J].华电技术, 2019,42(1):50-53,57.

SUN Zhenyu，SHEN Mingzhong.Experimental study on circulating cooling water treatment by microbiological method[J].Huadian Technology, 2019,42(1):50-53,57.

1. 黄绍伟.自适应调频模式分解在轴承故障诊断中的应用[J].华电技术, 2019,42(1):54-57.

HUANG Shaowei.Application of ACMD in fault diagnosis for bearings[J].Huadian Technology, 2019,42(1):54-57.

1. 王志永,许贺,朱慧敏,等.耗差分析法在超临界压力直流锅炉能耗分析中的应用[J].华电技术, 2019,42(1):58-62.

WANG Zhiyong，XU He，ZHU Huimin，et al.Application of fuel consumption difference analysis method in a supercritical pressure once-through boiler[J].Huadian Technology, 2019,42(1):58-62.

**技术交流**

1. 耿克普.构皮滩升船机承船厢现场拼焊施工设计方案[J].华电技术, 2019,42(1):63-67.

GENG Kepu.Design of on-site assembly and welding for Goupitan ship lift chamber[J].Huadian Technology, 2019,42(1):63-67.

1. 李鹏刚.超临界锅炉省煤器蛇形管弯头泄漏原因分析[J].华电技术, 2019,42(1):68-72.

LI Penggang.Cause analysis for the leakage of serpentine-tube elbow in supercritical boiler economizer[J].Huadian Technology, 2019,42(1):68-72.

1. 陈宇,胡贤矿,翁小川,等.在运分相操作 GIS 断路器现场改造[J].华电技术, 2019,42(1):73-77.

CHEN Yu，HU Xiankuang，WENG Xiaochuan，et al.Field transformation of GIS circuit breaker in phase-division operation[J].Huadian Technology, 2019,42(1):73-77.

1. 徐江,赵志发,李军.1000MW 二次再热机组给水温度优化实施 [J].华电技术, 2019,42(1):78-80.

XU Jiang，ZHAO Zhifa，LI Jun.Optimization of feedwater temperature of 1000MW double reheat units [J].Huadian Technology, 2019,42(1):78-80.

**2019年42卷2期**

**电力大数据**

[1]胡杰，唐静，谢仕义，等.基于大数据技术的电厂设备状态评估和预警应用研究[J].华电技术, 2019,42(2):1-6.

HU Jie，TANG Jing，XIE Shiyi，et al.State assessment and early warning application for power plant equipment based on big data technology[J].Huadian Technology, 2019,42(2):1-6.

1. 陈明恩，汪贤浩.一种基于云集中控制的电力瘦SCADA系统实现方法究[J].华电技术, 2019,42(2):7-11.

CHEN Ming’en，WANG Xianhao.Realization of a thin SCADA system for electricity centralized control based on cloud[J].Huadian Technology, 2019,42(2):7-11.

1. 王凤，周铁梁.基于大数据的大型装备全生命周期管理研究[J].华电技术, 2019,42(2):12-16.

WANG Feng，ZHOU Tieliang.Explore the value of data for lifecycle management of large equipment[J].Huadian Technology, 2019,42(2):12-16.

1. 曾强.WebGIS在智能电网大数据可视化中的应用与分析[J].华电技术, 2019,42(2):17-21.

ZENG Qiang.Application and analysis of WebGIS in big data visualization of smart grid[J].Huadian Technology, 2019,42(2):17-21.

**智能电力**

1. 冯佐江，李红建，杨勇，等.1000MW燃煤机组燃料智能管控系统整体解决方案及应用[J].华电技术, 2019,42(2):22-27.

FENG Zuojiang，LI Hongjian，YANG Yong，et al.Overall solution and application of fuel intelligent management and control system for 1000MW coal-fired units[J].Huadian Technology, 2019,42(2):22-27.

1. 谌强，朱亚迪.燃机智能电厂框架下的厂级技术监督管理系统研究与开发[J].华电技术, 2019,42(2):28-32.

SHEN Qiang，ZHU Yadi.Research and development of plant-level technical supervision and management system under the framework of smart gas turbine power plant[J].Huadian Technology, 2019,42(2):28-32.

1. 孟鹏飞，刘昱芊.水电站启闭设备远程智能综合管理系统设计[J].华电技术, 2019,42(2):33-36.

MENG Pengfei，LIU Yuqian.Design of remote intelligent integrated management system for hoisting equipment of hydropower stations[J].Huadian Technology, 2019,42(2):33-36.

1. 崔修强.燃料全过程在线监管与诊疗平台的研发与功能实现[J].华电技术, 2019,42(2):37-41.

CUI Xiuqiang.Development and application of a fuel whole-process online monitoring and diagnosis platform[J].Huadian Technology, 2019,42(2):37-41.

1. 张宪军，赵谦，梁志宝，等.智能变电站交换机基于GOOSE管理技术设计与实现[J].华电技术, 2019,42(2):42-49.

ZHANG Xianjun,ZHAO Qian,LIANG Zhibao,et al.Design and implementation of GOOSE management technology on smart substation switches[J].Huadian Technology, 2019,42(2):42-49.

1. 岳峰，史志伟，董金才，等.智能电网继电保护控制设备硬件可靠性设计及测试[J].华电技术, 2019,42(2):50-57.

YUE Feng，SHI Zhiwei，DONG Jincai，et al.Reliability design and test for relay protection devices applied in smart grid[J].Huadian Technology, 2019,42(2):50-57.

**清洁能源**

1. 蒋瓅，许鸣珠，周雅娣.城市水光互补分布式能源的优化配置研究[J].华电技术, 2019,42(2):58-62.

JIANG Li，XU Mingzhu，ZHOU Yadi.Optimal configuration of hydro-solar complementary distributed power systems in cities[J].Huadian Technology, 2019,42(2):58-62.

1. 李新凯，刘蔚，张廷军，等.综合能源背景下风电叶片雷击防护安全研究[J].华电技术, 2019,42(2):63-67.
LI Xinkai，LIU Wei，ZHANG Tingjun，et alStudy on wind turbine blade protection against lightening applied in comprehensive energy[J].Huadian Technology, 2019,42(2):63-67
2. 贾辉，曹浩，刘希志，等.1000MW核电机组主变高压套管介损与环境温度关系试验研究[J].华电技术, 2019,42(2):68-71.
JIA Hui，CAO Hao，LIU Xizhi，et al.Experimental study on relationship between the dielectric loss of main transformer high-voltage bushing and ambient temperature in a 1000MW nuclear power unit[J].Huadian Technology, 2019,42(2):68-71.

**研究与开发**

1. 孙书刚，朱昱，钱兵，等..基于遗传算法的涂层转接工艺优化[J].华电技术, 2019,42(2):72-75.
SUN Shugang，ZHU Yu，QIAN Bing，et al.Coating transfer process optimization based on GA[J].Huadian Technology[J].Huadian Technology, 2019,42(2):72-75.
2. 张刚，乔伟，韩迎鸽，等.江河水流能发电影响因素分析及试验研究[J].华电技术, 2019,42(2):76-80.

ZHANG Gang，QIAO Wei，HAN Yingge，et al.Analysis and experimental study on factors affecting power generation by river current[J].Huadian Technology, 2019,42(2):76-80.

**2020年42卷3期**

**节水与废水零排放**

[1]胡大龙，冉琼，王正江,等.直流冷却型火电厂水污染防治技术研究[J].华电技术, 2020,42(3):1-7.

HU Dalong, RAN Qiong, WANG Zhengjiang, et al.Research on water pollution prevention and control technology of fossil-fired power plants with once-through cooling system[J]. Huadian Technology,2020,42(3): 1-7.

[2]张富峰，刘道宽，曲保忠,等.某300 MW燃煤机组脱硫废水旁路烟道蒸发系统设计[J].华电技术,2020,42(3):8-18.

ZHANG Fufeng, LIU Daokuan, QU Baozhong, et al.Design of the desulfurization wastewater bypass flue evaporation system in a 300MW coal-fired power plant[J].Huadian Technology,2020,42(3):8-18.

[3]王群奎，晋银佳，宋达,等.脱硫废水烟气蒸发技术中的数值模拟研究现状与发展[J].华电技术,2020,42(3 ):19-24.

WANG Qunkui, JIN Yinjia, SONG Da, et al.Status and progress of numerical simulation in flue gas evaporation technology for desulfurization wastewater [J].Huadian Technology,2020,42(3 ):19-24.

[4]高永钢，史志伟.膜蒸馏在火电厂脱硫废水零排工艺中的技术经济分析[J].华电技术,2020,42(3):25-30.

GAO Yonggang, SHI Zhiwei.Techno-economic analysis on membrane distillation in desulfurization wastewater ZLD process of coal-fired power plants[J].Huadian Technology,2020,42(3):25-30.

[5]侯致福，魏晓仪，邢树涛,等.300 MW 机组低温余热闪蒸脱硫废水零排放技术应用研究[J].华电技术,2020,42(3):31-36.

HOU Zhifu, WEI Xiaoyi, XING Shutao, et al.Research on low-temperature waste heat flash evaporation technology applied in desulfurization wastewater zero discharge of 300MW units[J].Huadian Technology,2020,42(3):31-36.

**烟气水分与余热回收**

[6]马双忱，武凯，孙尧,等.燃煤电厂水分与余热回收系统工艺方案及模糊评价[J].华电技术, 2020,42(3):37-44.

MA Shuangchen, WU Kai, SUN Yao, et al.Process schemes and fuzzy evaluation of moisture and waste heat recovery systems in coal-fired power plants[J]Huadian Technology, 2020,42(3):37-44.

[7]马双忱，龚春琴，辜涛,等.烟气回收水水质水量特点及回收水利用途径分析[J].华电技术, 2020,42(3):45-51.

MA Shuangchen, GONG Chunqin, GU Tao, et al. Characteristics of water quality and quantity of flue gas recovery water from coal-fired power plants and analysis of utilization methods of recycled water[J].Huadian Technology, 2020,42(3):45-51.

**超低排放与碳减排**

[8]沈亚光，郭欢欢，卫平波,等.烟气回收水水质水量特点及回收水利用途径分析[J].华电技术, 2020,42(3):52-58.
SHEN Yaguang, GUO Huanhuan, WEI Pingbo, et al.Characteristics of water quality and quantity of flue gas recovery water from coal-fired power plants and analysis of utilization methods of recycled water [J].Huadian Technology, 2020,42(3):52-58.

[9]曹建宗，林宸雨，陈文通,等.现代预测和优化算法在脱硫系统运行中的应用[J].华电技术, 2020,42(3):59-66.
CAO Jianzong, LIN Chenyu, CHEN Wentong, et al.Application of modern prediction and optimization algorithms in FGD systems[J].Huadian Technology, 2020,42(3):59-66.

[10]吴汉栋，赵春黎，彭尊.中国燃煤火电机组碳氧化因子测算方法及规律性分析[J].华电技术, 2020,42(3):67-71.

WU Handong, ZHAO Chunli, PENG Zun.Measurement method and regularity analysis on carbon oxidation factor of coal-fired power units in China[J].Huadian Technology, 2020,42(3):67-71.

**污泥与固废处理**

[11]李磊，乔琳，刘振生,等.燃煤电厂湿法脱硫污泥处置与固化技术研究进展[J].华电技术, 2020,42(3):72-77.
LI Lei, QIAO Lin, LIU Zhensheng, et al.Progress in research on the treatment and solidification of wet desulfurized sludge in coal-fired power plants [J].Huadian Technology, 2020,42(3):72-77.

[12]徐东升，樊帅军，李德峰,等.从石灰石的生态属性论白泥脱硫的环境意义[J].华电技术, 2020,42(3):78-84.

XU Dongsheng, FAN Shuaijun, LI Defeng, et al.Ecological significance of white mud desulfurization discussed from the ecological properties of limestone[J].Huadian Technology, 2020,42(3):78-84.