

全国中文核心期刊
中国科技核心期刊
中国精品科技期刊

中国科学引文数据库 (CSCD) 核心期刊
RCCSE中国核心学术期刊 (A)
三秦卓越科技期刊

ISSN 1002-3364
CN 61-1111/ TM
CODEN RFEAC8

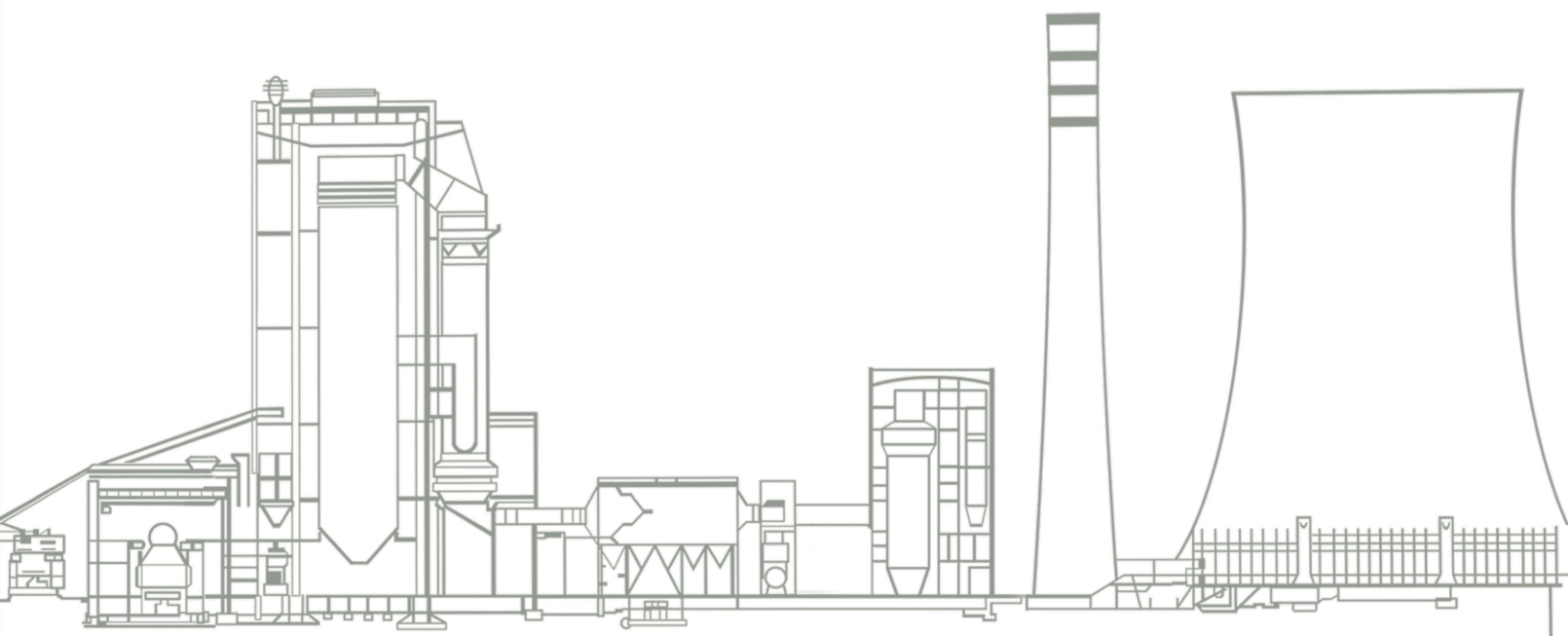
THERMAL POWER GENERATION

热力发电

2023.08

总第441期
1972年创刊
第52卷

■ 主办：西安热工研究院有限公司 中国电机工程学会



CONTENTS

目次

技术经济综述

- 01 基于 CiteSpace 的能源系统优化调度研究热点与趋势分析
//林俊光, 冯彦皓, 林小杰, 吴凡, 钟巍, 俞自涛, 叶建君
- 13 燃煤热电联产机组耦合固体废物等离子体气化发电系统热经济分析
//周专, 王新刚, 边家瑜, 于志勇, 刘骏, 陈衡
- 26 海上风电制氢与氢能动力船舶应用综合场景设计与经济性分析
//孙百洵, 杨国刚, 刘新宇, 王皓, 李悦, 王人洁

热能科学研究

- 32 基于机器学习的螺旋管圈水冷壁壁温预测模型研究
//袁茂博, 邓磊, 刘雪敏, 杨凯璇, 梁永, 刘虎, 笪耀东, 车得福
- 40 火电厂热电联产机组与液态 CO₂ 储能耦合系统热力性能分析
//王妍, 王洋, 吕凯, 郑郝, 金森, 俞骏, 邹莹, 马汀山
- 51 质子交换膜燃料电池阴极侧糖葫芦型流道数值模拟研究//喻峰正, 冼海珍
- 60 有机朗肯循环无油涡轮膨胀机热力学特性研究及试验验证
//彭斌, 杨宝坤, 巩楷刚, 张朋成, 徐建伟, 刘慧鑫
- 70 微波辅助低共熔溶剂浸取回收钴酸锂正极材料的实验研究
//邹小刚, 马文君, 牛国平, 梁志远, 周飞, 赵钦新, 李文锋
- 81 电位分析法用于湿法脱硫浆液氧化控制的理论研究//房孝维, 何育东, 宦宣州, 李兴华, 陶明, 王泽
- 87 基于向心涡轮机发电的工业供热蒸汽能量梯级利用系统性能分析
//张波, 李峰, 余志文, 顾煜炯, 石磊, 赵文博
- 96 T92 钢中 Laves 相在内压蠕变过程中析出特征和电化学响应行为研究
//李季, 唐丽英, 周荣灿, 张红军, 李江
- 104 考虑机组变负荷过程特性的火储联合调频负荷优化方法//李振, 王楠, 周喜超, 赵鹏翔, 丛琳, 宣凯
- 113 铝化物涂层对 T92 钢高温力学性能的影响//黄春林, 朱明, 鲁金涛, 黄锦阳, 党莹樱, 袁勇
- 121 工业园区综合能源系统蒸汽混合建模仿真研究//周懿, 李建训, 王家乐, 林小杰, 钟巍

发电技术论坛

- 129 超超临界 650 °C 机组 BEST 方案热力性能研究//王文焕, 许朋江, 薛朝因, 居文平, 周波, 戴晓业, 史琳
- 137 基于注意力机制组合模型的燃煤-煤气混合燃烧电厂 NO_x 排放预测//钱虹, 张俊, 徐邦智
- 146 燃煤机组 SCR 烟气脱硝系统流场均布一体化建模与性能优化//张媛媛, 曲江源, 张锴
- 156 风电齿轮油中水分测定方法研究
//冯丽苹, 尹文波, 龙国军, 王娟, 刘永洛, 王笑微, 谢佳林, 安毅坤, 朱春红, 陈愿媛, 孙世俊
- 162 基于组合神经网络的分布式光伏超短期功率预测方法//杨锡运, 马文兵, 彭琰, 孟令卓越, 王晨旭, 马骏超
- 172 基于长短时记忆神经网络的深度调峰火电机组一次调频能力在线估计
//张小科, 王子杰, 夏大伟, 王建波, 胡怀中
- 179 基于深度长短记忆网络的汽轮机数据清洗//许小刚, 王志香, 王惠杰
- 188 基于改进马氏距离的分布式能源电站设备健康度研究//陈子洋, 彭道刚, 徐春梅, 赵慧荣

THERMAL POWER GENERATION

CONTENTS

Technical and economic review

Research hotspots and trends analysis of energy systems optimal scheduling based on CiteSpace

.....LIN Junguang, FENG Yanhao, LIN Xiaojie, WU Fan, ZHONG Wei, YU Zitao, YE Jianjun(1)

Thermo-economic evaluation of a solid waste plasma gasification power system integrated with a combined heat and power plant

.....ZHOU Zhuan, WANG Xingang, BIAN Jiayu, YU Zhiyong, LIU Jun, CHEN Heng(13)

Integrated application design and economic analysis of hydrogen production by offshore wind power offshore and hydrogen powered ship

.....SUN Baixun, YANG Guogang, LIU Xinyu, WANG Hao, LI Yue, WANG Renjie(26)

Thermal energy science research

Research on prediction model for spiral water-cooled wall temperature based on machine learning

.....YUAN Maobo, DENG Lei, LIU Xuemin, YANG Kaixuan, LIANG Yong, LIU Hu, DA Yaodong, CHE Defu(32)

Thermal performance analysis of the coupled system of cogeneration unit and liquid carbon dioxide energy storage system

.....WANG Yan, WANG Yang, LYU Kai, ZHENG Hao, JIN Sen, YU Jun, ZOU Ying, MA Tingshan(40)

Numerical simulation analysis of sugar gourd type channel on cathode side of proton exchange membrane fuel cell

.....YU Fengzheng, XIAN Haizhen(51)

Research on thermodynamic characteristics and experimental verification of ORC oil-free scroll expander

.....PENG Bin, YANG Baokun, GONG Kaigang, ZHANG Pengcheng, XU Jianwei, LIU Huixin(60)

Experimental study on recovery of lithium cobalt oxide cathode by microwave-assisted deep eutectic solvent extraction

.....ZOU Xiaogang, MA Wenjun, NIU Guoping, LIANG Zhiyuan, ZHOU Fei, ZHAO Qinxin, LI Wenfeng(70)

Theoretical study on potentiometric analysis applied to oxidation control of wet desulfurization slurry

.....FANG Xiaowei, HE Yudong, HUAN Xuanzhou, LI Xinghua, TAO Ming, WANG Ze(81)

Performance analysis of cascade utilization system for industrial heating steam energy based on centripetal turbine power generation

.....ZHANG Bo, LI Feng, YU Zhiwen, GU Yujiong, SHI Lei, ZHAO Wenbo(87)

Investigation on the precipitation characteristics and electrochemical responsibility of Laves phase during internal pressure creep test of T92

.....LI Ji, TANG Liying, ZHOU Rongcan, ZHANG Hongjun, LI Jiang(96)

Optimization method of joint frequency modulation load of thermal power unit and energy storage considering the characteristics of thermal power plant variable load process

.....LI Zhen, WANG Nan, ZHOU Xichao, ZHAO Pengxiang, CONG Lin, XUAN Kai(104)

Effect of aluminide coating on the mechanical properties of T92 steel

.....HUANG Chunlin, ZHU Ming, LU Jintao, HUANG Jinyang, DANG Yingying, YUAN Yong(113)

Simulation study on steam hybrid modeling of integrated energy system in industrial parks

.....ZHOU Yi, LI Jianxun, WANG Jiale, LIN Xiaojie, ZHONG Wei(121)

Power generation technology forum

Thermal performance of 650 °C ultra supercritical unit with BEST

.....WANG Wenhuan, XU Pengjiang, XUE Zhaonan, JU Wenping, ZHOU Bo, DAI Xiaoye, SHI Lin(129)

NO_x emission prediction of coal-gas hybrid combustion plant based on the combination of attention mechanism model

.....QIAN Hong, ZHANG Jun, XU Bangzhi(137)

Integrated modeling and performance optimization of flow field homogenization in SCR denitrification system of coal-fired unit

.....ZHANG Yuanyuan, QU Jiangyuan, ZHANG Kai(146)

Study on the determination method of water content in wind turbine gear oil

.....FENG Liping, YIN Wenbo, LONG Guojun, WANG Juan, LIU Yongluo, WANG Xiaowei, XIE Jialin, AN Yikun, ZHU Chunhong, CHEN Yuanyuan, SUN Shijun(156)

Distributed photovoltaic ultra-short-term power prediction method based on combined neural network

.....YANG Xiyun, MA Wenbing, PENG Yan, MENG Lingzhuochao, WANG Chenxu, MA Junchao(162)

On-line estimation of primary frequency regulation capability of deep peak regulation thermal power unit based on LSTM neural network

.....ZHANG Xiaoke, WANG Zijie, XIA Dawei, WANG Jianbo, HU Huaizhong(172)

Turbine data cleaning based on deep LSTM

.....XU Xiaogang, WANG Zhixiang, WANG Huijie(179)

Research on equipment health of distributed energy power station based on improved Mahalanobis distance

.....CHEN Ziyang, PENG Daogang, XU Chunmei, ZHAO Huirong(188)

RELI FADIAN

热力发电



扫一扫关注我们

ISSN 1002-3364
CN 61-1111/TM

邮发代号: 国外 M3261
国内 52-103

定价: 30.00 元/期
360.00 元/年

ISSN 1002-3364



9 771002 336237

08>