

ISSN 0258-8013

CODEN ZDGXER

中国电机工程学报

旬刊

第 33 卷 第 17 期

Proceedings of the CSEE

THREE TIMES A MONTH

Vol.33 No.17

(特别关注: 发电)



6月 中旬
2013

2013-06-15 出版

ISSN 0258-8013



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

9 770258 801131

中国电机工程学报

ZHONGGUO DIANJI GONGCHENG XUEBAO

第 33 卷

第 17 期 (总第 460 期)

2013 年 6 月 15 日

目 次 (发 电)

英文概述一览 (S1—S16)

• 热能工程 •

- 内螺纹管内超临界水的流动阻力特性试验研究 张伟强, 李会雄, 张庆, 雷贤良, 张一帆, 等 (1)
采用炉膛燃烧和传热反问题在线测量超临界直流锅炉燃煤发热量 刘福国, 郝卫东, 胡志宏, 等 (8)
氨水溶液联合脱除燃煤烟气中 CO₂ 和 SO₂ 的模拟和经济性分析 齐国杰, 王淑娟, 余景文, 等 (16)
富氧燃烧模拟烟气中 SO₂ 和 H₂O 对活性炭吸附汞的影响 赵波, 刘小伟, 斯俊平, 王超, 等 (24)
生物质与煤混燃过程气态汞排放特性试验研究 殷立宝, 徐齐胜, 高正阳, 钟俊, 郑双清 (30)
选择性催化还原服役后催化剂活性及动力学实验研究 廖永进, 陆继东, 黄秋雄, 杨青山, 等 (37)
一体式双极荷电凝并器试验研究 何剑, 刘道清, 徐国胜 (45)
孔板对复合电袋除尘器静电区除尘性能影响的实验研究 涂扬赓, 宋蔷, 涂功铭, 姚强 (51)
批量制备 Fe₂O₃/Al₂O₃ 氧载体及褐煤化学链燃烧实验研究 郭磊, 赵海波, 马琎晨, 梅道锋, 等 (57)
锡盟褐煤干燥和重吸收特性的实验研究 沈望俊, 刘建忠, 虞育杰, 朱洁丰, 周俊虎, 岑可法 (64)
直接空冷火电机组风机群分区调节运行实验 刘丽华, 杜小泽, 席新铭, 杨立军, 杨勇平, 等 (71)

• 工程热物理 •

- 稳态传热边界温度分布的正则化共轭梯度反演 王堃, 王广军, 陈红, 罗兆明, 严飞 (78)

• 可再生能源发电 •

- 新型 PV/T 太阳能利用复合系统的实验研究 李光明, 刘祖明, 李景天, 廖华, 朱勋梦, 张卫东 (83)

• 动力机械与工程 •

- 重型燃气轮机燃烧室过渡段气动造型设计及性能分析 吴晶峰, 蒋洪德 (90)
风力机叶片流固耦合计算分析 胡丹梅, 张志超, 孙凯, 张建平 (98)
行星齿轮箱故障诊断的非平稳振动信号分析方法 冯志鹏, 范寅夕, LIANG Ming, 褚福磊 (105)

PROCEEDINGS OF THE CHINESE SOCIETY FOR
ELECTRICAL ENGINEERING
(PROCEEDINGS OF THE CSEE)

Vol.33 No.17 (Ser.460)

Jun. 15, 2013

CONTENTS
(Power Generation)

Extended Summary (S1~S16)

• Thermal Engineering •

- Experimental Study on Flow Resistance of Supercritical Pressure Water in an Internally Ribbed Tube ZHANG Weiqiang, LI Huixiong, ZHANG Qing, LEI Xianliang, ZHANG Yifan, CHI Haomiao, JIA Minyue (1)
On-line Determination of the Calorific Value of Fired Coals in Supercritical Pressure Once-through Boilers Based on Inverse Furnace Combustion and Radiation Problems LIU Fuguo, HAO Weidong, HU Zhihong, ZHOU Xingang, JIANG Bo, LENG Chenggang (8)
Modeling and Economic Analysis on Combined Capture of CO₂ and SO₂ in Flue Gas Using Aqueous Ammonia QI Guojie, WANG Shujuan, YU Jingwen, ZHAO Bo, CHEN Changhe (16)
Impact of SO₂ and H₂O on Mercury Removal by Activated Carbon in Simulated Flue Gas of Oxy-coal Combustion ZHAO Bo, LIU Xiaowei, SI Junping, WANG Chao, LI Dong, WU Wangchen, XU Minghou (24)
Experimental Investigation on Gaseous Mercury Formation Characteristics Under Biomass and Coal Co-firing Conditions YIN Libao, XU Qisheng, GAO Zhengyang, ZHONG Jun, ZHENG Shuangqing (30)
Experimental Study on Activity and Kinetics of Served SCR Catalysts LIAO Yongjin, LU Jidong, HUANG Qiuxiong, YANG Qingshan, XUE Xinhua, LIU Zhixiang, DENG Zhu (37)
Experimental Research on Integrative Bipolar Charged Agglomerator HE Jian, LIU Daoqing, XU Guosheng (45)
Experimental Research on Particulate Collection Performance by Perforated Plate in Hybrid Particulate Collector TU Yanggeng, SONG Qiang, TU Gongming, YAO Qiang (51)
Batch Preparation of Fe₂O₃/Al₂O₃ Oxygen Carriers for Chemical Looping Combustion of Lignite GUO Lei, ZHAO Haibo, MA Jinchen, MEI Daofeng, FANG Yanfei, ZHENG Chuguang (57)
Experimental Study on Drying and Reabsorption of the Lignite of Ximeng SHEN Wangjun, LIU Jianzhong, YU Yujie, ZHU Jiefeng, ZHOU Junhu, CEN Kefa (64)
Experiments on Divisional Regulation of Fan Cluster for Direct Air-Cooled Power Generating Units LIU Lihua, DU Xiaoze, XI Xinming, YANG Lijun, YANG Yongping, XU Zelin (71)

• Engineering Thermophysics •

- Regularization Conjugate Gradient Inverse for the Temperature Distribution of Steady-state Heat Transfer Boundary WANG Kun, WANG Guangjun, CHEN Hong, LUO Zhaoming, YAN Fei (78)

• Renewable Power Generation •

- Experimental Study on A Novel Hybrid Photovoltaic/Thermal Solar System LI Guangming, LIU Zuming, LI Jingtian, LIAO Hua, ZHU Xunmeng, ZHANG Weidong (83)

• Power Mechanical Engineering •

- Investigation of Transition Piece Structure Design and Aerodynamic Performance in Heavy Duty Gas Turbine Combustors WU Jingfeng, JIANG Hongde (90)
Computational Analysis of Wind Turbine Blades Based on Fluid-structure Interaction HU Danmei, ZHANG Zhichao, SUN Kai, ZHANG Jianping (98)
A Nonstationary Vibration Signal Analysis Method for Fault Diagnosis of Planetary Gearboxes FENG Zhipeng, FAN Yinxi, LIANG Ming, CHU Fulei (105)