

ISSN 0258-8013
CODEN ZDGXER

中国电机工程学报

旬刊

第 33 卷 第 8 期

Proceedings of the CSEE

THREE TIMES A MONTH

Vol.33 No.8

(特别关注: 发电)

3月 中旬

2013

2013-03-15 出版



ISSN 0258-8013



0.8>



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

万方数据

目 次
(发 电)

英文概述一览..... (S1—S16)

• 热能工程 •

回收循环水余热热泵供热系统热力性能分析 张学镭, 陈海平 (1)
吸收烟气余热的非共沸混合工质蒸发换热特性 周颖艳, 杜小泽, 杨立军, 杨勇平 (9)
CFB-FGD 脱硫塔密相区固体颗粒径向运动特性研究..... 李少华, 王虎, 刘大任 (16)
交叉射流分级燃烧器中 CH₄ 柔和燃烧特性分析..... 黄明明, 邵卫卫, 刘艳, 熊燕, 张哲巅, 肖云汉 (22)
省煤器参数分布特性的分层模型分析 王际洲, 张燕平, 黄树红 (30)
热解温度对褐煤半焦成浆特性影响的实验研究 刘明强, 刘建忠, 王睿坤, 周俊虎, 岑可法 (36)
加压 O₂/CO₂ 气氛下煤粉着火特性的实验研究
..... 应芝, 张彦威, 葛立超, 周俊虎, 周志军, 刘建忠, 岑可法 (44)
格子波尔兹曼两相流模型模拟椭圆纤维捕集颗粒物过程 王浩明, 赵海波, 郑楚光 (50)
横向风速影响下湿式冷却塔内温度场及防冻措施的数值研究..... 李永华, 甄海军, 潘昌远, 李燕芳 (58)

• 工程热物理 •

环路热管毛细结构的研究进展 徐计元, 邹勇 (65)
三种典型低热值气体燃料的层流火焰速度测量
..... 翁武斌, 王智化, 梁晓晔, 黄镇宇, 周俊虎, 岑可法 (74)

• 核能与可再生能源发电 •

核电机组非能动技术的应用及其发展 周涛, 李精精, 汝小龙, 盛程, 陈娟, 黄彦平, 肖泽军 (81)
烘培对典型农业秸秆吸水性能的影响 郝宏蒙, 杨海平, 刘汝杰, 陈应泉, 李攀, 陈汉平 (90)
空气自呼吸式直接甲醇燃料电池的温度特性 曹先齐, 韩吉田, 陈培培, 于泽庭 (95)
百瓦级热声斯特林发电系统输出特性研究 邱利民, 赵益涛, 王凯, 楼平, 孙大明, 郭轶楠 (101)

• 动力机械与工程 •

行星齿轮箱故障诊断的幅值解调分析方法 冯志鹏, 赵镭镭, 褚福磊 (107)

• 行业信息 •

“太阳能并网发电与电力系统交互影响”专题征稿启事 (112)

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

Vol.33 No.8 (Ser.451)

Mar. 15, 2013

CONTENTS
(Power Generation)

Extended Summary (S1~S16)

• Thermal Engineering •

- Thermodynamic Analysis of Heat Pump Heating Supply Systems With Circulating Water Heat Recovery
..... ZHANG Xuelei, CHEN Haiping (1)
- Heat Transfer Characteristics of Zeotropic Mixtures in an ORC Evaporator Heated by Exhaust Gas
..... ZHOU Yingyan, DU Xiaoze, YANG Lijun, YANG Yongping (9)
- Radial Motion Characteristics of Solid Particles in CFB-FGD Desulfurization Tower Dense Phase
..... LI Shaohua, WANG Hu, LIU Daren (16)
- Investigation of Methane MILD Combustion Characteristics in Cross-flow Jet Mixing Staged Burners
..... HUANG Mingming, SHAO Weiwei, LIU Yan, XIONG Yan, ZHANG Zheduan, XIAO Yunhan (22)
- Analysis of Parameter Distribution in Economizer Based on Multizone Model
..... WANG Jizhou, ZHANG Yanping, HUANG Shuhong (30)
- Effects of Pyrolysis Temperature on Slurry Ability of Lignite Semi-coke
..... LIU Mingqiang, LIU Jianzhong, WANG Ruikun, ZHOU Junhu, CEN Kefa (36)
- Experimental Research on Ignition Characteristics of Pulverized Coal Under Pressurized O₂/CO₂ Atmosphere
..... YING Zhi, ZHANG Yanwei, GE Lichao, ZHOU Junhu, ZHOU Zhijun, LIU Jianzhong, CEN Kefa (44)
- Simulation of Particle Capture Process for Elliptical Fibers by Lattice-Boltzmann Two-phase Flow Model
..... WANG Haoming, ZHAO Haibo, ZHENG Chuguang (50)
- Numerical Study on the Temperature Field in Wet Cooling Tower and the Anti-icing Measures Under the Influence of
Horizontal Wind Speed LI Yonghua, ZHEN Haijun, PAN Changyuan, LI Yanfang (58)

• Engineering Thermophysics •

- Research and Development of Capillary Structure in Loop Heat Pipe XU Jiyuan, ZOU Yong (65)
- Laminar Flame Speed Measurement of Three Typical Low Calorific Value Gas Fuels
..... WENG Wubin, WANG Zhihua, LIANG Xiaoye, HUANG Zhenyu, ZHOU Junhu, CEN Kefa (74)

• Nuclear and Renewable Power Generation •

- Application and Development of Passive Technology in Nuclear Power Units
..... ZHOU Tao, LI Jingjing, RU Xiaolong, SHENG Cheng, CHEN Juan, HUANG Yanping, XIAO Zejun (81)
- Influence of Torrefaction on Typical Agricultural Straw Hydrophilic Property
..... HAO Hongmeng, YANG Haiping, LIU Rujie, CHEN Yingquan, LI Pan, CHEN Hanping (90)
- Operating Temperature Characteristics of Air-breathing Direct Methanol Fuel Cells
..... CAO Xianqi, HAN Jitian, CHEN Peipei, YU Zeting (95)
- Study on Output Characteristics of 100 W-Class Thermoacoustic-stirling Electric Generators
..... QIU Limin, ZHAO Yitao, WANG Kai, LOU Ping, SUN Daming, GUO Yinan (101)

• Power Mechanical Engineering •

- Amplitude Demodulation Analysis for Fault Diagnosis of Planetary Gearboxes..... FENG Zhipeng, ZHAO Leilei, CHU Fulei (107)