

综合智慧能源

ZONGHE ZHIHUI NENGYUAN

第 44 卷 第 8 期 (总第 361 期) 月刊 1979 年创刊 2022 年 8 月 25 日出版

目次

氧离子导体电池系统

- 金属支撑固体氧化物燃料电池技术进展 高圆, 李智, 李甲鸿, 等 (1)
- 固体氧化物燃料电池热电联供系统设计 罗丽琦, 王月, 钟海军, 等 (25)
- 合金纳米颗粒在碳氢燃料 SOFC 阳极中的应用 朱沙沙, 李宗宝, 邓雅恬, 等 (33)
- La/Ni 共掺杂 $\text{SrTi}_{0.35}\text{Fe}_{0.65}\text{O}_{3-\delta}$ 对称电极用于 SOEC 共电解 $\text{H}_2\text{O}/\text{CO}_2$ 研究 韩倩雯, 张琨, 陈晓阳, 等 (43)
- 中低温固体氧化物燃料电池电解质制备方法研究进展 杨莹, 张雁祥, 闫牧夫 (50)

质子导体电池系统

- 质子陶瓷燃料电池稳定性研究综述 曹加锋, 李欣然, 邵善德, 等 (58)
- 中温质子导体固体氧化物燃料电池的发展与挑战 许阳森, 张磊, 毕磊 (68)
- 质子导体固体电解池电解水制氢研究进展 陈晗钰, 周晓亮, 刘立敏, 等 (75)
- 管式质子陶瓷膜燃料电池的制备和性能研究 闫雪玲, 潘翔, 任柯柯, 等 (86)

技术交流

- 基于单层电堆形式的质子交换膜燃料电池仿真模拟研究及优化 胡翀, 赵袁, RAZA Ali, 等 (91)
- 燃料电池金属有机框架质子膜材料研究展望 张靖, 刘宇宙, 贺贝贝, 等 (97)

Cell System with Oxygen-Ion Conducting Electrolyte

- Progress in technologies of metal-supported solid oxide fuel cellsGAO Yuan, LI Zhi, LI Jiahong, et al. (1)
- Design of the CHP system integrated with SOFC LUO Liqi, WANG Yue, ZHONG Haijun, et al. (25)
- Application of alloy nanoparticles in the anodes of hydrocarbon solid oxide fuel cells
..... ZHU Shasha, LI Zongbao, DENG Yatian, et al. (33)
- Study on La/Ni co-doped $\text{SrTi}_{0.35}\text{Fe}_{0.65}\text{O}_{3-\delta}$ symmetric electrode for $\text{H}_2\text{O}/\text{CO}_2$ co-electrolysis in SOECs
.....HAN Qianwen, ZHANG Kun, CHEN Xiaoyang, et al. (43)
- Research progress on preparation methods of medium and low temperature SOFC electrolytes

Cell System with Proton Conducting Electrolyte

- Review on the study of protonic ceramic fuel cells' stabilityCAO Jiafeng, LI Xinran, SHAO Shande, et al. (58)
- Development and challenges of intermediate-temperature proton-conducting solid oxide fuel cells
.....XU Yangsen, ZHANG Lei, BI Lei (68)
- Research progress of hydrogen production from water electrolysis in proton-conducting solid electrolytic cells
.....CHEN Hanyu, ZHOU Xiaoliang, LIU Limin, et al. (75)
- Preparation and performance study of tubular protonic ceramic fuel cellsYAN Xueling, PAN Xiang, REN Keke, et al. (86)

Technology Exchange

- Simulation and optimization for the PEMFC based on single-cell stack structure
.....HU Chong, ZHAO Yuan, RAZA Ali, et al. (91)
- Reviews on proton membrane materials for metal-organic frameworks in fuel cells
.....ZHANG Jing, LIU Yuzhou, HE Beibei, et al. (97)

Competent Authority: China Huadian Corporation Ltd.
Sponsors: Huadian Zhengzhou Mechanical Design Institute
Co., Ltd. ;China Huadian Engineering Co., Ltd.
Editor and Publisher: Editorial Department of Integrated
Intelligent Energy
Add: No. 27 Huxin Ring Road, Center Island in Longzi Lake,
Zhengdong New District, Zhengzhou City, China
Postcode: 450046

Editor-in-Chief: SHEN Mingzhong
Executive Editor-in-Chief: YANG Mancheng
Website: www.hdpower.net
E-mail: hdjs-chd@vip.163.com
Tel: 86 - 371 - 58501042
Publication Number: ISSN 2097-0706
CODEN: ZZNOAF
Annual Subscription Rate: \$ 120.00