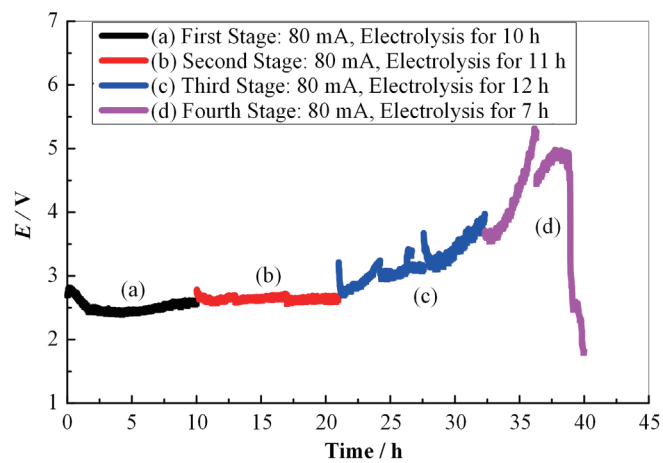
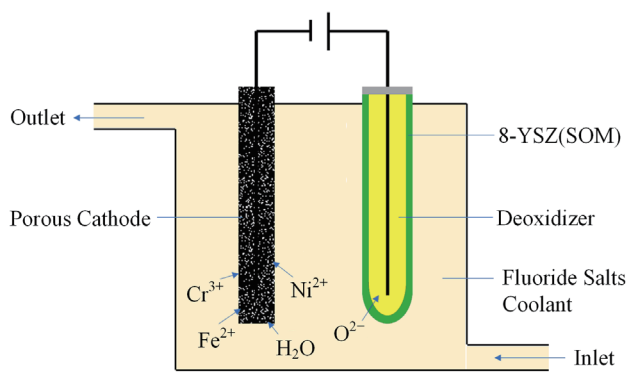


核技术



目 次

加速器技术、射线技术及应用

- 氧化铀固体激光诱导击穿光谱等离子体性质研究王祥丽 高智星 程毅梅 (110201)
- 氡同位素 β - γ 符合谱解谱中气体本底扣除方法改进张新军 王世联 贾怀茂 李奇 石建芳 樊元庆 赵允刚 (110202)
- 多能量 γ 射线源屏蔽下活度估算方法研究熊茂淋 张庆贤 张建 杨津 葛良全 孙坤 (110203)

核化学、放射化学、放射性药物和核医学

- SOM 电解法对氟盐冷却剂进行在线净化的研究左勇 申淼 谢雷东 谢宏伟 翟玉春 (110301)
- 含 N 固相吸附材料分离高放废液中镧系和铀系元素的研究进展俎建华 付凌霄 潘晓晗 王焕 (110302)

核电子学与仪器

- 基于 SiTCP 通信协议的 FPGA 可回滚远程固件更新方法陈长 王铮 胡俊 (110401)
- 电源噪声对模数转换器性能的影响王力 武杰 (110402)
- Cu/Cu₂O 参比电极 LBE 氧传感器的性能研究朱卉平 张瑜 赵云淦 刘旭东 常宝琛 李小波 牛凤雷 马雁 赵平 (110403)

核物理、交叉学科研究

- 4 π 平坦效率 ³He 中子探测器阵列的设计与模拟分析郝子锐 范功涛 刘龙祥 王宏伟 张岳 胡新荣 李鑫祥 王俊文 匡攀 戈松雨 (110501)

核能科学与工程

- 大型氟盐快堆中钍铀及铀钍循环分析李晓晓 余呈刚 马玉雯 蔡翔舟 陈金根 陈兴伟 (110601)
- 聚变堆用 CuCrZr 合金腐蚀模型研究及实验验证朱卉平 刘旭东 陈嘉威 杨鹏威 黄柏银 马雁 (110602)
- CFETR 离子回旋加热天线中子学分析伍秋染 卢棚 郑俞 杜华 徐坤 王永胜 童云华 陈根 刘松林 (110603)
- 烧结气氛对 MOX 燃料芯块性能的影响朱桐宇 杨廷贵 王军平 屠振华 张万德 (110604)

《核技术》新增 4 篇中国精品科技期刊顶尖论文(F5000)

Nuclear Techniques

Vol.43 No.11

November 2020

Contents

ACCELERATOR, RAY TECHNOLOGY AND APPLICATIONS

- Plasma diagnostic of CeO₂ solid sample by laser-induced breakdown spectroscopy
.....WANG Xiangli GAO Zhixing CHENG Yimei (110201)
- Improvement of subtraction method of gas background in β - γ coincidence spectra analysis
.....ZHANG Xinjun WANG Shilian JIA Huaimao LI Qi SHI Jianfang FAN Yuanqing ZHAO Yungang (110202)
- Study on the activity estimation method of shielded multi-energy gamma-ray sources
.....XIONG Maolin ZHANG Qingxian ZHANG Jian YANG Jin GE Liangquan SUN Kun (110203)

NUCLEAR CHEMISTRY, RADIOCHEMISTRY, RADIOPHARMACEUTICALS AND NUCLEAR MEDICINE

- On-line purification of fluoride salts coolant by an SOM electrolysis method
.....ZUO Yong SHEN Miao XIE Leidong XIE Hongwei ZHAI Yuchun (110301)
- Advances on separation of lanthanides and actinides from high-level waste liquids using N-containing solid phase adsorption material
.....ZU Jianhua FU Lingxiao PAN Xiaohan WANG Huan (110302)

NUCLEAR ELECTRONICS AND INSTRUMENTATION

- FPGA remote firmware update method based on SiTCP communication protocol with rollback function
.....CHEN Zhang WANG Zheng HU Jun (110401)
- Influence of power supply noise on the performance of ADC
.....WANG Li WU Jie (110402)
- Study on the performance of LBE oxygen sensor with Cu/Cu₂O reference electrode
.....ZHU Huiping ZHANG Yu ZHAO Yungan LIU Xudong CHANG Baochen LI Xiaobo NIU Fenglei
MA Yan ZHAO Ping (110403)

NUCLEAR PHYSICS, INTERDISCIPLINARY RESEARCH

- Design and simulation of 4π flat-efficiency ³He neutron detector array
.....HAO Zirui FAN Gongtao LIU Longxiang WANG Hongwei ZHANG Yue HU Xinrong LI Xinxiang
WANG Junwen KUANG Pan GE Songyu (110501)

NUCLEAR ENERGY SCIENCE AND ENGINEERING

- Analysis of Th-U and U-Pu fuel cycle in a 2 500 MWth molten chloride salt fast reactor
.....LI Xiaoxiao YU Chenggang MA Yuwen CAI Xiangzhou CHEN Jingen CHEN Xingwei (110601)
- Study on corrosion model and experimental verification of CuCrZr alloy for fusion reactor
.....ZHU Huiping LIU Xudong CHEN Jiawei YANG Pengwei HUANG Bokun MA Yan (110602)
- Neutronic analyses of ICRF antenna system for CFETR
.....WU Qiuran LU Peng ZHENG Yu DU Hua XU Kun WANG Yongsheng TONG Yunhua
CHEN Gen LIU Songlin (110603)
- Effect of sintering atmosphere on the performance of MOX fuel pellet
.....ZHU Tongyu YANG Tinggui WANG Junping TU Zhenhua ZHANG Wande (110604)