



ISSN 1000 - 3436

CN 31-1258 / TL

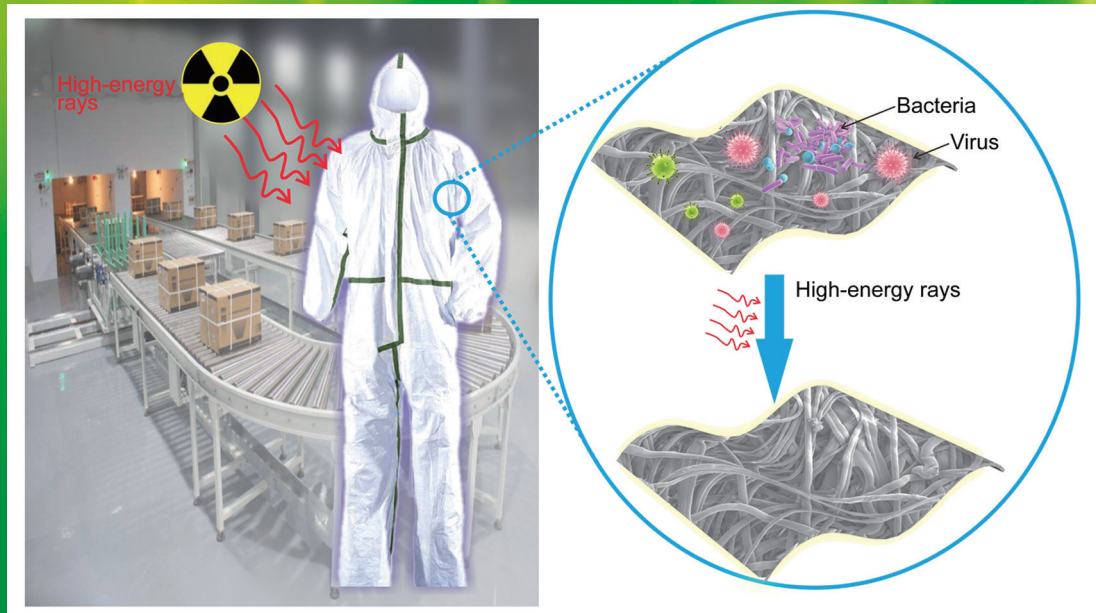
CODEN: FYYXEA



# 辐射研究与 辐射工艺学报

JOURNAL OF RADIATION RESEARCH  
AND RADIATION PROCESSING

Vol.38 No.1 2020.2



一次性医用防护服辐照灭菌原理示意图 (P.011101)

中国科学院上海应用物理研究所

科学出版社

万方数据

# 辐 射 研 究 与 辐 射 工 艺 学 报

Fushe Yanjiu Yu Fushe Gongyi Xuebao

2020 年 2 月 第 38 卷 第 1 期

## 目 次

### 辐射化学

- 马来酸酐接枝改性低密度聚乙烯的制备及其性能研究 .....叶翠翠 丁小军 李林繁 李景烨 (010201)
- 共轭吩噻嗪基烯酮染料敏化环氧树脂光聚合研究...赵希娟 付宏远 马晓玉 张 剑 王 涛 (010202)
- 4-氨基-1, 2, 4-三氮唑改性超高分子量聚乙烯纤维对 Au(III)的吸附机理 .....梁育林 魏向军 庞利娟 曾建荣 金 婵 李 燕 (010203)

### 辐射生物学与医学

- 沉默人乙酰转移酶样蛋白基因对结直肠癌 CL187 细胞放射敏感性的影响 .....胡乐林 陶慧慧 杨阳丽 陶欣荣 唐小龙 (010301)
- 电离辐射后肿瘤相关成纤维细胞中差异表达基因的生物信息学分析 .....杨宇虹 李 娜 (010302)
- 复方树莓籽粉对小鼠放射性脊髓损伤的防护作用 .....鲁召翔 王金辉 徐 宁 栾 桀 逢翔宇 夏玉军 (010303)

### 辐射防护

- 氩对空气凤梨 DNA 的辐射损伤效应 .....郑桂灵 李 鹏 周 峰 (010601)

### 辐射交叉学科研究

- 统计过程控制在医疗器械电子束辐照灭菌质量控制中的应用 .....岳芳名 李婷婷 孙开峰 齐 凯 (010701)

### 研究热点

- 棉纤维辐射接枝纳米粒子的绿色印染新思路 .....丁小军 虞 鸣 王自强 张伯武 李林繁 李景烨 (011001)

### 行业快讯

- 辐照技术为武汉疫情提供快速高效的医用防护服灭菌服务 .....郭丽莉 吴国忠 秦子淇 (011101)

### 《辐射研究与辐射工艺学报》第七届期刊编辑委员会成立暨第一次会议纪要

# Journal of Radiation Research and Radiation Processing

Vol.38 No.1

February 2020

## Contents

### RADIATION CHEMISTRY

- Radiation preparation and properties of low-density polyethylene grafted maleic anhydride .....  
.....YE Cuicui DING Xiaojun LI Linfan LI Jingye (010201)
- Visible-light photopolymerization of epoxy resin photosensitized by a conjugated phenothiazine ketene dye .....  
.....ZHAO Xijuan FU Hongyuan MA Xiaoyu ZHANG Jian WANG Tao (010202)
- Adsorption mechanism of Au(III) on UHMWPE fibers modified by 4-amino-1, 2, 4-triazole .....  
.....LIANG Yulin WEI Xiangjun PANG Lijuan ZENG Jianrong JIN Chan LI Yan (010203)

### RADIOBIOLOGY AND RADIOMEDICINE

- Effect of silencing human acetyltransferase-like protein on regulation of radiosensitivity in colorectal cancer CL187 cells .....  
.....HU Lelin TAO Huihui YANG Yangli TAO Xinrong TANG Xiaolong (010301)
- Bioinformatic analysis of differentially expressed genes in tumor-associated fibroblasts after ionizing radiation .....  
.....YANG Yuhong LI Na (010302)
- Protective effect of compound raspberry seed powder on radiation-induced spinal cord injury in mice.....  
.....LU Zhaoxiang WANG Jinhui XU Ning LUAN Jie PANG Xiangyu XIA Yujun (010303)

### RADIATION PROTECTION

- DNA damages in *Tillandsia* species caused by the radioactive gas radon .....ZHENG Guiling LI Peng ZHOU Feng (010601)

### RADIATION INTERDISCIPLINARY RESEARCH

- Application of statistical process control in medical devices quality control of electron beam irradiation sterilization .....  
.....YUE Fangming LI Tingting SUN Kaifeng QI Kai (010701)

### RESEARCH HIGHLIGHT

- “Green” dyeing of cotton fabric by radiation-initiated immobilizing nanoparticles.....  
.....DING Xiaojun YU Ming WANG Ziqiang ZHANG Bowu LI Linfan LI Jingye (011001)

### INDUSTRY BULLETIN

- Radiation technique provides fast and qualified sterilization service for disposable medical protective clothing to the fight against novel coronavirus pneumonia outbreak in Wuhan .....GUO Lili WU Guozhong QIN Ziqi (011101)