

ISSN 1674-0475

CN11-5604/O6



Q K 2 1 2 8 3 5 1

影像科学与光化学

IMAGING SCIENCE AND PHOTOCHEMISTRY

主办：中国科学院理化技术研究所

中国感光学会

出版：科学出版社

2021

Vol.39 No.4

影像科学与光化学

(Yingxiang Kexue yu Guanghuaxue)

第 39 卷 第 4 期

2021 年 7 月

目 次

吡啶菁绿在生物成像与医学工程中的应用进展	
..... 周巧雨, 许佳佳, 刘 敏, 马 鑫, 黄雨柔, 吴彦东, 陈 琼, 尹 军(487)	
光照对含氟表面活性剂表面性质的影响	王 坤, 姜小明(492)
基于自支撑的 MoS_2 -RGO- MoS_2 复合薄膜的悬浮型宽谱光电探测器研究	王晨凤, 曹 阳(497)
极紫外(EUV)光刻胶树脂及合成方法进展	文 帅, 刘 强(504)
乳腺钼靶、超声造影检查鉴别诊断乳腺非肿块样强化病变的良恶性质的对比分析	赵 婷, 蒋世亮(512)
MRI 诊断腰椎不稳的价值	王少锋, 孟小庆, 赵玉龙, 苑 乾, 魏运栋(517)
256 层螺旋 CT 灌注成像参数在脑胶质瘤诊断中的应用价值	曾 灵, 梁 川, 陈 熙, 龚智威(522)
甲状腺良恶性结节 SWE 技术参数与超声造影参数的相关性及其联合诊断价值分析	赵恒达, 王 怡(526)
SWE 参数弹性模量值在乳腺癌发生腋窝淋巴结转移诊断中的价值	陈 佳, 黎 玲(533)
超声多模态评分、血流参数在不明原因复发性自然流产患者体内的变化及联合预测价值	
..... 吴新荣, 郑 颖(538)	
颈动脉超声筛查脑卒中高危人群颈动脉易损斑块与 ACR、ALBU 的相关性研究	
..... 张晓燕, 宋 晶, 吴晓明, 蔡东平, 朱良元, 闫 琼, 韩 文(544)	
子宫动脉血流多普勒参数结合血清 SDC-1、VEGF-A 对子宫内膜异位症的诊断价值及其相关性分析	
..... 卢祥章, 邓艳君(550)	
彩色多普勒血流参数对胎儿生长受限的诊断价值	马 楠, 陈 静, 李媛媛(556)

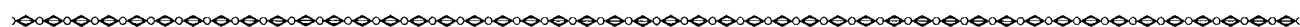
期刊基本参数: CN 11-5604/O6 * 1983 * b * A4 * 96 * zh+en * P * ¥40.00 * 2000 * 26 * 2021-7

阴道超声诊断自然分娩后 SUI 患者 BND、V-BN-S 参数特点及康复治疗前后变化分析	
.....	姜孝花, 陈会娟, 卢晓二(560)
脊柱结核不全瘫患者 MSCT 影像表现及其临床意义	张娅丽, 罗小波, 赵 倩(564)
SMI 技术检测颈动脉斑块内新生血管的应用	王湘竹, 王 琳, 卢瑞刚, 于泽兴(569)
多层螺旋 CT 诊断先天性心脏病患儿大血管部分畸形的研究	屠娜娜, 周 玲(574)
定量动态增强 MRI 与脑胶质瘤患者血清 IL-10、IL-12 表达的相关性分析	
.....	刘铁芳, 臧 晓, 张德康, 胡坚兴, 李 萌, 王永昊(579)
肺炎支原体肺炎急性期 X 线与 HRCT 肺部特征及诊断价值对比	赵兰花, 杨淑慧, 马 琳(584)
CT 骨性影像学参数于胸腰椎骨折后方韧带复合体损伤诊断中价值及危险因素分析	
.....	朱思光, 孙 涛(589)
麻醉前快速超声评估及术中经食道超声心动图监测对急危重患者手术麻醉的临床指导作用	
.....	余 璇, 卢 彬, 李 强, 曹 露, 范 彬(595)
TPUS 检查对子宫全切术后患者 PFD 发生情况的评估价值	季润琰, 何伯圣, 吴 静(601)
增强 CT 在食管癌分期及预后评估中的应用价值研究	陈 江, 吴 涛(606)
多层螺旋 CT 血管造影对糖尿病足患者病情程度判断中的价值	张宇峰, 刘艳武(611)
MRI 血管造影对颈动脉狭窄程度和斑块组成成分的检测效果	
.....	李 硕, 高俊华, 梁 博, 杜霄鹏, 黄顺星, 张 欢, 杜 雷(615)
乳腺癌超声造影联合 BI-RADS 分级与病理检查结果对比分析	邹 芳, 王 爽(620)

IMAGING SCIENCE AND PHOTOCHEMISTRY

Vol. 39 No. 4

July, 2021



CONTENTS

Application of Indocyanine Green in Bioimaging and Medical Engineering	
..... ZHOU Qiaoyu, XU Jiajia, LIU Min, MA Xin, HUANG Yurou, WU Yandong, CHEN Qiong, YIN Jun (487)	
Effect of Light Irradiation on the Surface Properties of the Surfactant Having Fluorine	
..... WANG Kun, JIANG Xiaoming (492)	
Fully Suspended and Broad Spectral Photodetectors Based on Self-supported MoS ₂ -RGO-MoS ₂ Composite Film	
..... WANG Chenfeng, CAO Yang (497)	
Development of Photoresist Resins and Their Synthesis Methods for Extreme Ultraviolet Lithography	
..... WEN Shuai, LIU Qiang (504)	
Comparative Analysis of Benign and Malignant Properties of Breast Molybdenum Target and Contrast-enhanced Ultrasonography in Differential Diagnosis of Breast Non-mass-like Lesions	
..... ZHAO Ting, JIANG Shiliang (512)	
The Value of MRI in the Diagnosis of Lumbar Instability	
..... WANG Shaofeng, MENG Xiaoqing, ZHAO Yulong, YUAN Qian, WEI Yundong (517)	
Application Value of 256 Slice Spiral CT Perfusion Imaging Parameters in the Diagnosis of Gliomas	
..... ZENG Ling, LIANG Chuan, CHEN Xi, GONG Zhiwei (522)	
Analysis of Correlation between SWE Imaging Technical Parameters and Peak, T _p , MTT and Combined Diagnostic Value of Thyroid Benign and Malignant Nodules	
..... ZHAO Hengda, WANG Yi (526)	
The Value of SWE Parameter Elastic Modulus in the Diagnosis of Axillary Lymph Node Metastasis in Breast Cancer	
..... CHEN Jia, LI Ling (533)	
Changes of Ultrasound Multimodal Scores and Blood Flow Parameters in Patients with Unexplained Recurrent Spontaneous Abortion and Their Combined Predictive Value	
..... WU Xinrong, ZHENG Ying (538)	
Study on the Correlation between Carotid Artery Vulnerable Plaque and ACR and ALBU in High-Risk Population of Stroke Based on Carotid Ultrasound Screening	
..... ZHANG Xiaoyan, SONG Jing, WU Xiaoming, CAI Dongping, ZHU Liangyuan, YAN Qiong, HAN Wen (544)	
Diagnostic Value and Correlation Analysis of Uterine Artery Blood Flow Doppler Parameters Combined with Serum SDC-1 and VEGF-A in Endometriosis	
..... LU Xiangzhang, DENG Yanjun (550)	

Diagnostic Value of Color Doppler Flow Parameters in Fetal Growth Restriction	MA Nan, CHEN Jing, LI Yuanyuan(556)
The Characteristics of BND, V-BN-S Parameters in Patients with SUI after Natural Delivery Diagnosed by Transvaginal Ultrasound and the Changes before and after Rehabilitation Treatment	JIANG Xiaohua, CHEN Huijuan, LU Xiaoe(560)
MSCT Findings and Clinical Significance of Spinal Tuberculosis Patients with Incomplete Paralysis	ZHANG Yali, LUO Xiaobo, ZHAO Qian(564)
Clinical Application of SMI Technology in Detecting Neovascularization in Carotid Plaque	WANG Xiangzhu, WANG Lin, LU Rui gang, YU Zexing(569)
Multi-slice Spiral CT in the Diagnosis of Partial Malformation of Large Vessels in Children with Congenital Heart Disease	TU Nana, ZHOU Ling(574)
Correlation Analysis of Quantitative Dynamic Contrast-Enhanced MRI and Serum IL-10, IL-12 Expression in Patients with Glioma	LIU Tiefang, ZANG Xiao, ZHANG Dekang, HU Jianxing, LI Meng, WANG Yonghao(579)
Comparison of Pulmonary Characteristics and Diagnostic Value of X-ray and HRCT in Children with Acute Mycoplasma Pneumoniae Pneumonia	ZHAO Lanhua, YANG Shuhui, MA Lin(584)
The Value of Parameters of CT Bone Imaging in the Diagnosis of Posterior Ligamentous Complex Injury in Thoraco- lumbar Fracture and the Analysis of Risk Factors	ZHU Siguang, SUN Tao(589)
Preoperative Rapid Ultrasound Evaluation and Intraoperative Transesophageal Echocardiographic Monitoring for the Clinical Guidance of Anesthesia in Critically Ill Patients	YU Xuan, LU Bin, LI Qiang, CAO Lu, FAN Bin(595)
Evaluation Value of TPUS Examination on PFD Occurrence in Patients after Hysterectomy	JI Runyan, HE Bosheng, WU Jing(601)
Application Value of Enhanced CT in Staging and Prognosis Evaluation of Esophageal Carcinoma	CHEN Jiang, WU Tao(606)
Multi-slice Spiral CT Angiography in the Diagnosis of Diabetic Foot Lower Extremity Artery Disease	ZHANG Yufeng, LIU Yanwu(611)
The Effect of MRI Angiography on the Degree of Carotid Artery Stenosis and Plaque Composition	LI Shuo, GAO Junhua, LIANG Bo, DU Xiaopeng, HUANG Shunxing, ZHANG Huan, DU Lei(615)
Comparative Analysis of Contrast-enhanced Ultrasound Combined with BI-RADS Grading and Pathological Examination of Breast Cancer	ZOU Fang, WANG Shuang(620)

影像科学与光化学

IMAGING SCIENCE AND PHOTOCHEMISTRY

<http://www.yxkxyghx.org>

本刊刊登领域:影像科学与技术、生物与医学成像、数字成像及图像信息处理、光化学、光医学等。

“*Imaging Science and Photochemistry*” publishes the results and peer-reviewed articles in following scientific areas: imaging science and technology, biological and medical imaging, digital imaging and image information processing, photochemistry, and photomedicine, etc.

影像科学与光化学

(双月刊,1983年创刊)

第39卷 第4期 2021年7月

IMAGING SCIENCE AND PHOTOCHEMISTRY

(Bimonthly, Started in 1983)

Vol. 39 No. 4 July, 2021

主管 中国科学院
主办 中国科学院理化技术研究所
中国感光学会
主编 王雪松
编辑 《影像科学与光化学》编辑部
通讯地址:北京市海淀区中关村东路29号
中国科学院理化技术研究所
邮政编码:100190
电话:010-82543683
电子信箱:xb@mail.ipc.ac.cn

出版 科学出版社
地址:北京东黄城根北街16号
邮政编码:100717

印刷装订 北京科信印刷有限公司
总发行 科学出版社
国外总发行 中国国际图书贸易总公司
(北京399信箱)
邮政编码:100044

©版权所有 中国标准连续出版物号
ISSN 1674-0475
CN 11-5604/O6

Superintended by Chinese Academy of Sciences
Sponsored by Technical Institute of Physics and Chemistry,
CAS; Chinese Society for Imaging Science and Technology
Editor in Chief: WANG Xuesong
Edited by the Editorial Board of Imaging Science and Photochemistry
Address: No. 29 Zhongguancun East Road, Haidian
District, Beijing 100190, P. R. China
E-mail: xb@mail.ipc.ac.cn

Published by Science Press
16 Donghuangchenggen North Street, Beijing 100717,
P. R. China

Printed by Beijing Kexin Printing Limited Company

Domestically distributed by Science Press

Internationally distributed by China International Book Trading
Corporation (P. O. Box 399, Beijing 100044, P. R. China)

ISSN 1674-0475

CN 11-5604/O6

CODEN: YKYGAW



国外发行代号: BM1146

国内邮发代号: 2-383

公开发行, 国内定价: 40.00元

广告发布登记: 京海市监广登字 20190002号

ISSN 1674-0475

