

ISSN 1674-0475

CN11-5604/O6



QK2204942

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

2022

Vol.40 No.1

影像科学与光化学

(Yingxiang Kexue yu Guanghuaxue)

第 40 卷 第 1 期

2022 年 1 月

目 次

基于 SPECT 和 PET 的免疫成像技术研究进展 张莉莉, 向 韡, 刘 超, 刘 刚(1)

DCE-MRI 参数联合 *IFIT1* 基因对腰椎间盘突出患者椎间盘退变程度的评估价值
..... 杜志坡, 马淑芳, 李 警, 王建波, 张 朝, 崔坤坤(11)

孤立性肺结节的 CT 形态学特征结合 GSI 模式的诊断学研究 朱 华, 成 瑶, 常燕翔, 王 勇, 陈 进(17)

Micro-CT 参数对骨质疏松性椎体压缩性骨折术后复发的预测价值 ... 王栋栋, 任伟民, 陈 凯, 胡晓东, 梁玲娣(22)

超声测量前腹壁脂肪厚度在预测低体质量儿与巨大儿中的应用 王树艳, 王金娥, 王志梅, 韩 鹏(28)

超声多模态评分评价 RSA 患者子宫容受性的价值 崔雪婷, 王 敏, 刘茜茜, 刘 喆(33)

多普勒超声联合血清 FE3、ACTA 预测孕妇羊水过少并胎儿窘迫 路 炜, 牛占杰, 孟腾腾, 单倩倩(38)

增强 CT 联合血清指标诊断结直肠癌的价值 蔡 丽, 全 祥(43)

彩超联合人绒毛膜促性腺激素 β 诊断早期宫外孕的研究 肖 旭, 赵淑霞, 黄 立(48)

MRI 检查神经根沉降征诊断 LSS 患者的价值及其危险因素分析
..... 李敏红, 余 林, 李志铭, 谭理连, 李汉文, 列潮炜, 利 晞, 梁杰峰(53)

超声联合计算机在晚期恶性梗阻性黄疸治疗中的应用 韩东亮, 李 广, 姚 皓, 刘昭明(59)

MRI 参数、 β -HCG 与瘢痕妊娠清宫术后再治疗相关性及其意义 李 琦, 汪 俊, 梅春秀(64)

TVS 和 CEUS 诊断子宫内膜良恶性病变的价值 关义满, 刘雅宁, 张 钊, 李德鑫, 常雅丽(69)

CEUS 联合常规超声诊断乳腺非肿块型疾病的研究 伏 晶, 刘爱玲, 王吉科(73)

CTA 联合 CTP 在预测急性脑梗死预后中的价值 杜静波, 刘迎新, 李振武(78)

期刊基本参数: CN 11-5604/O6 * 1983 * b * A4 * 96 * zh+en * P * ¥40.00 * 2000 * 40 * 2022-1

超声内镜联合 CT 门静脉成像技术对肝硬化 GOV 程度及疗效的评价	李 欢, 韩晓磊, 赵 星(83)
CTA 成像在下肢血管闭塞病变中的应用及与血管腔内疗效的关系 ...	杨彦林, 吴国良, 田少勇, 王春燕, 赵鹏飞(89)
呼吸机相关性肺炎患者肺部超声评分与 NAMPT、Endocan、NLR 的关系 ...	马力丰, 刘月霞, 刘宏强, 王义成(94)
定量能谱 CT 多参数成像诊断多发性骨髓瘤价值及临床意义	马丽娜, 马如海(100)
快速三维 MR 血管壁成像评估急性脑梗死及颈动脉粥样硬化的研究	凌秀梅, 苏寿红, 曾阳东(105)
心脏彩超对 AECOPD 并发肺栓塞的评估价值	武艳娇, 申海龙, 翟 江, 冯金凤, 陈宝霞(109)
一站式 CT 检查系统在急性胸痛患者干预方案中的应用	杨 珺, 张宏伟, 杨 勇(114)
食道多普勒超声指导液体治疗在老年肺癌手术中的应用	陈 鹏, 李 玲, 杨丽娜, 赵国娜, 姬雅君(119)
多层螺旋 CT 诊断新生儿食管闭锁和食管气管瘘的价值	崔若棣, 杨光勇, 刘兆天, 赵建设(124)
基于 MRI 的绝经后女性腰椎退行性病变程度与骨质疏松的相关性研究	樊 冰, 李曦欧(128)
腹部彩超联合 CA125 诊断卵巢浆液性肿瘤的研究	丁迎春, 鲍玲玲, 燕小朋(133)
3.0T MRI 检查结合 X 线钼靶诊断乳腺恶性肿瘤的研究	刘 昊, 邵汛帆, 莫志文, 周敏卿, 郑乃莹, 梁 颖(138)
肺部超声、机械功与重症肺炎肺水肿及 ARDS 关系分析	吴 军, 吴怀标(142)
超声引导下水压灌肠在急性肠套叠诊治中的应用	吕永鑫, 强 群, 王维斌(147)
磁共振 T2WI、DWI 对直肠癌新辅助治疗疗效的评估价值	肖 欢, 赵振华, 周 莹, 谢梦雨, 刘启榆(151)
超声心动图诊断胎儿先心病及危险因素分析	余 婵, 王 蓓, 杨 园, 狄 敏(156)
彩色多普勒超声在浅表软组织肿块诊断中的应用分析	赵轶敏, 王亚萍(161)
基于 CBCT 研究伴牙周炎患者种植牙治疗同期行 GBR 技术对牙槽骨的影响	蒋 菁, 高志强(165)
MR-DWI 成像预测乳腺癌腋窝淋巴转移的价值	李小玲, 苏洁敏, 王振平(170)
高分辨 MRI 3D 黑血技术诊断颈动脉斑块的研究	汪 勤, 邓忠奎, 陈菁菁(175)
三维超声检测不同分娩方式及第二产程产妇肛提肌裂孔差异	叶 楠, 宁荣萍(180)
X 线、MRI 在儿童肱骨外髁骨折诊断中的价值研究	苏 伟, 朱大勇, 周大新, 牛正宣, 陈建伟(184)
脑部磁共振结合静息态 fMRI 方法在卒中患者认知障碍中的应用	汝 宁, 姚明仁, 白新苹, 王幼萌(188)
DSA、CTA 联合 MR 影像评估 AIS 患者脑支循环及预后性关系	
.....	邱传珍, 杨少春, 刘 明, 欧阳奕安, 易仁辉, 华顺德(192)
MSKUS 检查对于脑梗后肩周软组织损伤的诊治价值	劳诚臣, 覃东琼, 黄 煜, 韦 姣, 韦凤仙, 余媛媛(198)

IMAGING SCIENCE AND PHOTOCHEMISTRY

Vol. 40 No. 1

Jan. , 2022

CONTENTS

- Research Progress of Immunoimaging Technology Based on SPECT and PET
..... ZHANG Lili, XIANG Wei, LIU Chao, LIU Gang(1)
- The Evaluation Value of DCE-MRI Parameters Combined with *IFIT1* Gene on the Degree of Disc Degeneration in Patients
with Lumbar Disc Herniation DU Zhipo, MA Shufang, LI Jing, WANG Jianbo, ZHANG Chao, CUI Kunkun(11)
- Diagnostic Study of CT Morphological Features of Solitary Pulmonary Nodules Combined with GSI Mode
..... ZHU Hua, CHENG Yao, CHANG Yanxiang, WANG Yong, CHEN Jin(17)
- Predictive Value of Micro-CT Parameters for Postoperative Recurrence of Osteoporotic Vertebral Compression Fractures
..... WANG Dongdong, REN Weiming, CHEN Kai, HU Xiaodong, LIANG Lingdi(22)
- Application of Anterior Abdominal Wall Fat Thickness Measured by Ultrasound in Predicting Low Body Weight Infants
and Macrosomia WANG Shuyan, WANG Jin'e, WANG Zhimei, HAN Peng(28)
- Value of Ultrasound Multimodal Score in Evaluating Uterine Receptivity in Patients with RSA
..... CUI Xueting, WANG Min, LIU Qianqian, LIU Zhe(33)
- Prediction of Oligohydramnios and Fetal Distress by Doppler Ultrasound Combined with Serum FE3 and ACTA
..... LU Wei, NIU Zhanjie, MENG Tengteng, Shan Qianqian(38)
- The Value of Enhanced CT Combined with Serum Markers in the Diagnosis of Colorectal Cancer
..... CAI Li, QUAN Xiang(43)
- Study of Color Doppler Ultrasonography Combined with Human Chorionic Gonadotropin β in Diagnosis of Early Ectopic
Pregnancy XIAO Xu, ZHAO Shuxia, HAUNG Li(48)
- The Value of MRI in the Diagnosis of Nerve Root Subsidence in Patients with LSS and Analysis of Its Risk Factors ...
..... LI Minhong, YU Lin, LI Zhiming, TAN Lilian, LI Hanwen, LIE Chaowei, LI Xi, LIANG Jiefeng(53)
- Application of Ultrasound Combined with Computer in the Treatment of Advanced Malignant Obstructive Jaundice
..... HAN Dongliang, LI Guang, YAO Hao, LIU Zhaoming(59)
- The Correlation and Significance of MRI Parameters, β -HCG and Retreatment after Evacuation of Scar Pregnancy
..... LI Qi, WANG Jun, MEI Chunxiu(64)
- The Value of TVS and CEUS in the Diagnosis of Benign and Malignant Endometrial Lesions
..... GUAN Yiman, LIU Yaning, ZHANG Chai, LI Dexin, CHANG Yali(69)
- Research of CEUS Combined with Conventional Ultrasound in the Diagnosis of Non-Mass Breast Diseases
..... FU Jing, LIU Ailing, WANG Jike(73)
- The Value of CTA Combined with CTP in Predicting the Prognosis of Acute Cerebral Infarction
..... DU Jingbo, LIU Yingxin, LI Zhenwu(78)
- The Evaluation Value of Ultrasound Endoscopy Combined with CT Portal Vein Imaging Technology on GOV Degree and
Therapeutic Effect of Liver Cirrhosis LI Huan, HAN Xiaolei, ZHAO Xing(83)
- Application of CTA in Lower Extremity Vascular Occlusion and Its Relationship with Endovascular Efficacy
..... YANG Yanlin, WU Guoliang, TIAN Shaoyong, WANG Chunyan, ZHAO Pengfei(89)

Correlation between Lung Ultrasound Score and Peripheral Blood Concentrations of NAMPT, Endocan and NLR in Patients with Ventilator-associated Pneumonia	MA Lifeng, LIU Yuexia, LIU Hongqiang, WANG Yicheng (94)
Value and Clinical Significance of Quantitative Energy Spectrum CT Multiparameter Imaging in the Diagnosis of Multiple Myeloma	MA Lina, MA Ruhai (100)
Evaluation of Carotid Atherosclerotic Plaques and Cerebral Infarction by Rapid Three-dimensional MR Wall Imaging	LING Xiumei, SU Shouhong, ZENG Yangdong (105)
The Assessed Value of Cardiac Color Ultrasound on AECOPD Complicated with Pulmonary Embolism	WU Yanjiao, SHEN Hailong, ZHAI Jiang, FENG Jinfeng, CHEN Baoxia (109)
Application of One-stop CT Examination System in the Intervention Program in the Management of Patients with Acute Chest Pain	YANG Jun, ZHANG Hongwei, YANG Yong (114)
Application of Esophageal Doppler Ultrasound Guided Liquid Therapy in Elderly Lung Cancer Surgery	CHEN Peng, LI Ling, YANG Lina, ZHAO Guona, JI Yajun (119)
Multi Slice Spiral CT in the Diagnosis of Esophageal Atresia and Esophagotracheal Fistula in Neonates	CUI Ruodi, YANG Guangyong, LIU Zhaotian, ZHAO Jianshe (124)
MRI-based Study on the Correlation Between the Degree of Lumbar Degeneration and Osteoporosis in Postmenopausal Women	FAN Bing, LI Xi'ou (128)
Study of Abdominal Color Doppler Ultrasound Combined with CA125 in the Diagnosis of Ovarian Serous Tumors	DING Yingchun, BAO Lingling, YAN Xiaopeng (133)
Study on Diagnosis of Breast Malignant Tumors by 3.0T MRI Combined with Mammography	LIU Hao, SHAO Xunfan, MO Zhiwen, ZHOU Mingqing, ZHENG Naiying, LIANG Ying (138)
Analysis of the Relationship between Lung Ultrasound, Mechanical Work and Severe Pneumonia, Pulmonary Edema and ARDS	WU Jun, WU Huaibiao (142)
Application of Ultrasound-guided Hydraulic Enema in the Diagnosis and Treatment of Acute Intussusception	LV Yongxin, QIANG Qun, WANG Weibin (147)
Evaluation of T2WI and DWI in Neoadjuvant Therapy for Rectal Cancer	XIAO Huan, ZHAO Zhenhua, ZHOU Ying, XIE Mengyu, LIU Qiyu (151)
Value and Risk Factors of Echocardiography in the Diagnosis of Fetal Congenital Heart Disease	YU Chan, WANG Bei, YANG Yuan, DI Min (156)
Application Analysis of Color Doppler Ultrasonography in the Diagnosis of Superficial Soft Tissue Masses	ZHAO Yimin, WANG Yaping (161)
Effect of GBR on Alveolar Bone Resorption in Patients with Periodontitis Treated with Dental Implant Based on CBCT	JIANG Jing, GAO Zhiqiang (165)
The Value of MR-DWI Imaging in Predicting Axillary Lymphatic Metastasis of Breast Cancer	LI Xiaoling, SU Jiemin, WANG Zhenping (170)
Diagnosis of Carotid Plaque by High Resolution MRI 3D Black Blood Technique	WANG Qin, DENG Zhongkui, CHEN Jingjing (175)
Detection of the Difference of Levator Ani Hiatus in Different Delivery Modes and Second Stage of Labor by Three-dimensional Ultrasound	YE Nan, NING Rongping (180)
The Value of X-ray and MRI in the Diagnosis of Lateral Condylar Fracture of Humerus in Children	SU Wei, ZHU Dayong, ZHOU Daxin, NIU Zhengxuan, CHEN Jianwei (184)
Application of Brain Magnetic Resonance Combined with Resting State fMRI in the Cognitive Impairment of Stroke Patients	RU Ning, YAO Mingren, BAI Xinping, WANG Youmeng (188)
DSA, CTA Combined with MR Imaging to Evaluate the Relationship between Cerebral Branch Circulation and Prognosis of AIS Patients	QIU Chuanzhen, YANG Shaochun, LIU Ming, OUYANG Yian, YI Renhui, HUA Shunde (192)
The Value of MSKUS Examination for the Diagnosis and Treatment of Soft Tissue Injury Around the Shoulder After Cerebral Infarction	LAO Chengchen, QIN Dongqiong, HUANG Yu, WEI Jiao, WEI Fengxian, YU Yuanyuan (198)

影像科学与光化学

IMAGING SCIENCE AND PHOTOCHEMISTRY

<http://www.ykxyghx.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40卷 第1期 2022年1月

IMAGING SCIENCE AND PHOTOCHEMISTRY

(Bimonthly, Started in 1983)

Vol. 40 No. 1 Jan., 2022

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 ISSN 1674-0475
续出版物号 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 Photo-
chemistry
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

