



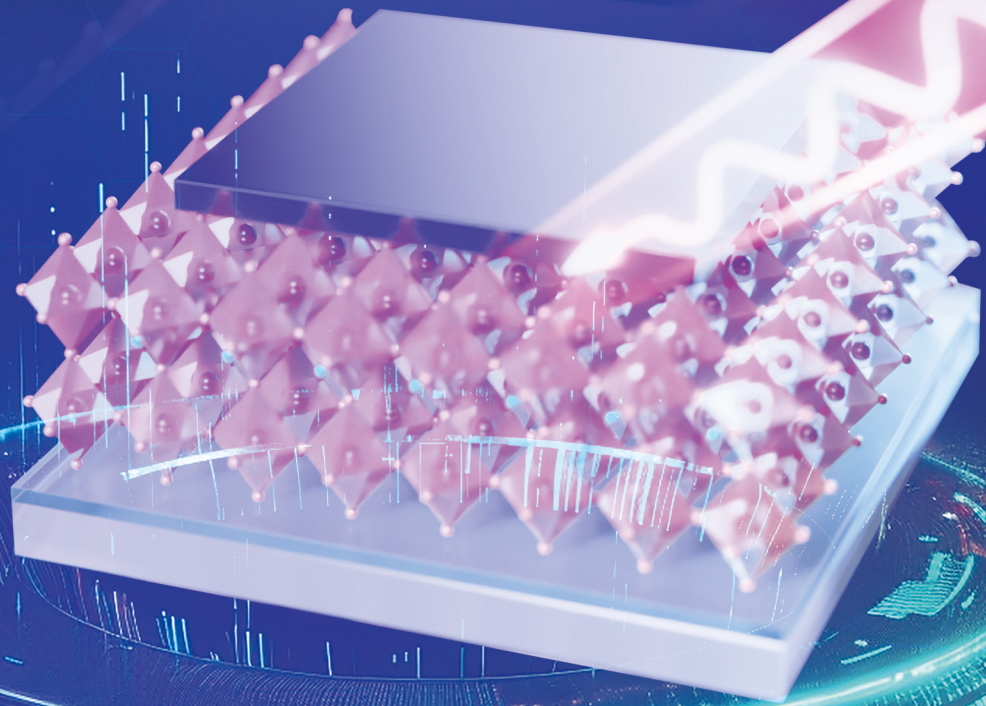
Institute of Fundamental and Frontier Sciences, UESTC
Transaction

ISSN 1674-862X
CODEN JESTF9

Journal of Electronic Science and Technology

电子科技学刊

Special Section on Biomedical Electronics and Bioinformatics
Special Section on Terahertz Technology and Applications



Vol. 21 No. 2 Jun. 2023

Journal of Electronic Science and Technology
电子科技学刊
Vol. 21 No. 2 Jun. 2023

Journal of Electronic Science and Technology

Vol. 21, No. 2, June 2023

CONTENTS

·Special Section on Biomedical Electronics and Bioinformatics·

Microwave-induced thermoacoustic imaging of joints

..... Zi-Hui Chi, Shuang Du, Yang Wang, Lin Huang, Dan Wu, Hua-Bei Jiang 100198

Weighted gene co-expression network analysis reveals similarities and differences of molecular features between dilated and ischemic cardiomyopathies

..... Felix K. Biwott, Ni-Ni Rao, Chang-Long Dong, Guang-Bin Wang 100193

·Special Section on Terahertz Technology and Applications·

Notch- δ -doped InP Gunn diodes for low-THz band applications

..... Duu Sheng Ong, Siti Amiera Mohd Akhbar, Kan Yeep Choo 100203

·Computer Science·

Application of graph neural network and feature information enhancement in relation inference of sparse knowledge graph

..... Hai-Tao Jia, Bo-Yang Zhang, Chao Huang, Wen-Han Li, Wen-Bo Xu, Yu-Feng Bi, Li Ren 100194

SAR target detection based on the optimal fractional Gabor spectrum feature

..... Ling-Bing Peng, Yu-Qing Wang, Ying-Pin Chen, Zhen-Ming Peng 100197

FPGA-based acceleration for binary neural networks in edge computing

..... Jin-Yu Zhan, An-Tai Yu, Wei Jiang, Yong-Jia Yang, Xiao-Na Xie, Zheng-Wei Chang, Jun-Huan Yang 100204

·Materials and Devices·

High-performance omnidirectional self-powered photodetector constructed by CsSnBr₃/ITO heterostructure film

..... Dong Liu, Feng-Jing Liu, Jie Zhang, Zi-Xu Sa, Ming-Xu Wang, Sen Po Yip, Jun-Chen Wan, Peng-Sheng Li, Zai-Xing Yang 100196

Effective technology for processing industrial volatile organic compounds by the atmospheric pressure microwave plasma torch

..... Da-Shuai Li, Ling Tong 100207

Call for Papers: Special Section on Progress of Analysis Techniques for Domain-Specific Big Data

..... CFP-ATDSBD

Editor-in-Chief: Zhiming M. Wang
Deputy Editor: Yan-Bo Li, Xin Tong, and Xuan Xie
Academic Editor: Tao Zhou
Manager Editor: Xuan Xie
Director of Editorial Board of Journals of UESTC: Yan-Fei Jing

Editorial Office (Chengdu)

Associate Editor: Xuan Xie, Yu-Lian He, and Xin Huang

Editorial Office (Taichung)

Executive Editor-in-Chief: Min-Shiang Hwang
Associate Editor: Chia-Chen Lin, Jim-Min Lin, Iuon-Chang Lin, and Hao-Wei Liu

Editorial Office (Kuala Lumpur)

Executive Editor-in-Chief: Yun Seng Lim
Associate Editor: Kein Huat Chua, Lai Koon Chun, and Jianhui Wong

Journal of Electronic Science and Technology

Journal of Electronic Science and Technology

(Formerly Journal of Electronic Science and Technology of China, Quarterly, Started in 2003)

Vol. 21 No. 2 Jun. 2023

Competent authority: Ministry of Education of the People's Republic of China

Sponsored by: University of Electronic Science and Technology of China

Edited & published by: Editorial Board of Journals of University of Electronic Science and Technology of China

Editorial office: No. 4, Section 2, North Jianshe Road, Chengdu 610054, China

Printed by: Chengdu Chuanqiao Printing Co., Ltd.

Distribution mode: Publishing domestically and internationally

Domestic distributed by: Sichuan Newspapers and Periodicals Distribution Branch, China Post (Distribution code: 62-268)

Overseas distributed by: KeAi Communications Co., Ltd.

<http://www.journal.uestc.edu.cn> Email: journal@uestc.edu.cn

Tel.: 86-28-83200199

Subscription: RMB ¥ 30.00

ISSN 1674-862X
CN 51-1724/TN



ISSN 1674-862X



9 771674 862232

06>