



Institute of Fundamental and Frontier Sciences, UESTC
Transaction

ISSN 1674-862X
CODEN JESTF9

Journal of Electronic Science and Technology

电子科技大学

Special Section on Energy, Materials, and Nanotechnology
Special Section on Quantum Information Processing



Vol. 21 No. 1 Mar. 2023

Journal of Electronic Science and Technology

Vol. 21, No. 1, March 2023

CONTENTS

·Special Section on Energy, Materials, and Nanotechnology·

Review of roll-to-roll fabrication techniques for colloidal quantum dot solar cells

..... Yin-Fen Ma, You-Mei Wang, Jia Wen, Ao Li, Xiao-Liang Li, Mei Leng,
Yong-Biao Zhao, Zheng-Hong Lu 100189

·Special Section on Quantum Information Processing·

Analytical method for cell displacement defect quantum-dot cellular automata primitive

..... Vaishali Dhare, Usha Mehta 100183

·Circuit and System·

Shaped beam pattern synthesis with desired nulling level and minimum sidelobe level

..... Li-Ming Xu, Qiang-Jian Song, Shi-Wen Lei, Bo Chen, Jing Tian, Hao-Quan Hu 100184

·Signal Processing·

Computationally efficient MUSIC based DOA estimation algorithm for FMCW radar

..... Bakhtiar Ali Karim, Haitham Kareem Ali 100192

Compressive near-field millimeter wave imaging algorithm based on Gini index and

total variation mixed regularization Jue Lyu, Dong-Jie Bi, Bo Liu, Guo Yi,
Xue-Peng Zheng, Xi-Feng Li, Li-Biao Peng, Yong-Le Xie, Yi-Ming Zhang, Ying-Li Bai 100191

Guide for Authors GFA

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

..... CFP-ATDSBD

Call for Papers: Special Section on Biomedical Electronics and Bioinformatics CFP-BioEB