Progress
In
Electromagnetics
Research C
CONTENTS

Numerical Analysis of a ITO Based Circularly Polarized Optically Transparent THz Antenna Employing Characteristic Mode Analysis
Muhammad Asad Rahman, Md. Sarwar Uddin Chowdhury, Md. Azad Hossain and Ahmed Toaha Mobashsher ................................................................. 1

Staired-Slitted Flag Central Resonator Based Wide Band Bandpass Filter for Super Spurious Harmonic Suppressions
Ami Iqubal and Parambil Abdulla ................................................................. 17

A Miniaturized MIMO Antenna for C, X, and Ku Band Applications
Ajit K. Singh, Santosh K. Mahto, and Rashmi Sinha ........................................... 31

Accurate Fault Location for Long-Distance Electric Transmission Lines
Lihui Zhao, Jingwei Zhu, Hongzhe Yang, and Tianhuai Qiao.................................. 41

Research on Shielding and Electromagnetic Exposure Safety of an Electric Vehicle Wireless Charging Coil
Wenting Mou and Mai Lu ..................................................................................... 55

Compact Differential Tri-Band Bandpass Filter with Multiple Zeros Using Sext-Mode Stepped-Imedance Square Ring Loaded Resonator
Ziyue Guo, Litian Wang, Rong Guo, Yang Xiong, Ming He, Lu Ji, and Xu Zhang .............. 73

Design and Analysis of Rectenna at 2.42 GHz for Wi-Fi Energy Harvesting
Rashmi Pandey, Ashok K. Shankhwar, and Ashutosh Singh ...................................... 89

Compact Dual-Band Printed MIMO Antenna with Very Low Mutual Coupling for WLAN, Wi-MAX, Sub-6 GHz 5G and X-Band Satellite Communication Applications
Kommanaboyina V. Babu, Sudipta Das, Soufian Lakrit, Shobhit K. Patel
Boddapati T. P. Madhav and Hicham Medkour .................................................... 99

A Crescent-Shaped Monopole MIMO Antennas with Improved Isolation for Dual-Band WLAN Applications
Likaa S. Yahya, Loay S. Yahya, and Khalil H. Sayidmarie ........................................ 115

MIMO Antenna for N48, N77, N78 5G Applications
Walaa M. Hassan, Khalid M. Ibrahim, and Ahmed M. Attiya ..................................... 129

Dual-Band Waveguide Fed Hollow Cylindrical Dielectric Resonator Antenna
Varghese Sheeba, Parambil Abdulla, Baby Ann Mary, Puthenveetil Muhammed Jasmine and Kunnath Kodakkat Ansha ......................................................... 145

Performance Analysis and Impedance Modeling of Rectangular and Circular Split-Ring Resonator Antennas in 2.4/5.2 GHz Bands
Puneet Sehgal and Kamlesh Patel ......................................................................... 159
Wideband Four-Port Compact Millimeter-Wave MIMO Antenna Configuration through Defected Ground Structure for Forthcoming 5G Handheld Devices
Abdullah, Hamza Ahmad, MuhibUr Rahman, Muhammad Haris, and Muhammad Salman . . . . . . . 173

Frequency Diverse ISAR Two-Dimensional Imaging Method and Resolution Analysis
Xiu-Ping Li, Ke-Fei Liao, and Bo Wen ................................................................. 185

Wideband Designs of Regular Shape Microstrip Antennas Using Modified Ground Plane
Venkata A. P. Chavali and Amit A. Deshmukh .................................................. 203

Design of a Coplanar UWB-MIMO Ground Antenna Based on the Theory of Characteristic Modes
Zhijun Tang, Jie Zhan, Bin Zhong, Long Chen, and Guocai Zuo ............................ 221

Optimized Cancer Cells Sensor Based on 1D Photonic Crystal Vertical Slot Structure
Faiza Bounaas and Amel Labbani ................................................................. 239

Millimeter Wave Switched Beam Rectangular Loop Dipole Antenna Array Using a 4 × 4 Butler Matrix
Kunooru Bharath, Srujana Vahini N, Rama K. Dasari, Mahesh P. Abegaonkar
and Vijay M. Pandharipande ................................................................. 251

Modified Spokes Wheel Shaped MIMO Antenna System for Multiband and Future 5G Applications: Design and Measurement
Sumeet S. Bhatia and Narinder Sharma .......................................................... 261

Design and Fabrication of a Triple Band Microstrip Antenna for WLAN, Satellite TV and Radar Applications
Prem Pal Singh and Sudhir Kumar Sharma .................................................. 277