

# IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION

A PUBLICATION OF THE IEEE ANTENNAS AND PROPAGATION SOCIETY



JUNE 2024

VOLUME 72

NUMBER 6

IETPAK

(ISSN 0018-926X)

---

## PAPERS

### *Arrays and Periodic Structures*

- [Space-Time-Coding Digital Metasurface Element Design Based on State Recognition and Mapping Methods With CNN-LSTM-DNN](#) .....  
..... *P. Wang, Z. Li, Z. Wei, T. Wu, C. Luo, W. Jiang, T. Hong, G. F. Pedersen, and M. Shen*
- [Design of Dual-Polarized Tilted-Beam Parasitic Array Antenna With Both High Isolation and High Polarization Purity](#) .....  
..... *M. Li, Z. Sun, M.-C. Tang, and L. Zhu*
- [3-D-Printed All-Metal Conformal Circularly Polarized Reflectarray Antenna at X-Band](#) ..... *Y. Wang, M. Han, W. Dou, and T. Li*
- [On the Equivalent-Circuit-Based Design of Double-Lossy-Layer Wide Transmissive Rasorbers With Ultrawide Reflection Suppression Band](#) .....  
..... *S. Zhu, Y. Wang, Z. Wang, J. He, X. Quan, D. Gao, and Z. Cao*
- [Dual-Band Energy-Selective Surface With Enhanced Independence Based on Two-Layer Diode-Loaded FSS](#) .....  
..... *S. Zhong, M. Chen, G. Xu, and Y. Chen*
- [Heterogeneous Dispersed Antenna Array Design for Noncooperative Interference Cancellation](#) .....  
..... *J. Zhang, W. Li, H. Gao, J. Bo, H. Wang, W. Wang, and J. Meng*
- [Heterogeneous Beam Elements Based Phased Array Antenna Technology: Theory, Analysis, and Experiment](#) .....  
..... *Y. Wan, S. Liao, W. Che, and Q. Xue*
- [Phase-Only-Induced Independent Full-Range Amplitude and Phase Manipulations Using Dual-Channel Transmitarrays](#) .....  
..... *Y. Jiao, H. Shi, X. Chen, J. Yi, J. Chen, A. Zhang, Z. Xu, and H. Liu*
- [Ultrawideband Microwave Absorber Conformable on Nondevelopable Curved Surfaces Based on the Hauberk Structure](#) .....  
..... *C. Fu, Z. Fu, W. Chu, J. Gao, D. Sun, F. Wang, W. Gu, and L. Sun*
- [Phased Array Antenna With Top-Truncated Dome Lens for Wide-Angle Scanning](#) ..... *Y. Wan, S. Liao, L. Li, J. Wei, W. Che, and Q. Xue*
- [On the Cross-Polarization Levels of Arrays With Wide Angle Impedance Matching Layers](#) .....  
..... *A. J. van Katwijk, C. M. C. Martin, G. Toso, and D. Cavallo*
- [Polarization-Insensitive, Broadband, and High-Efficiency Metasurface for Holographic Imaging](#) .....  
..... *X. Chen, Y. Li, W. Li, J. Zhou, J. Zhuo, and Y. Liu*
- [A Reflection–Transmission Multifunctional Polarization Conversion Metasurface](#) ..... *H. Yang, Y. He, M. S. Tong, L. T. Guo, P. Li, and Y. J. Zhang*
-