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Title: Wind power communication millimeter wave base station

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In this paper, we present the design and real-world implementation of a DMA-assisted wireless communication platform operating in the license-free 60 GHz millimeter ...

In this paper, the Doppler effect and amplitude modulation caused by wind-triggered oscillations are studied through experiments in the 60GHz band. A mathematical model is built to analyze ...

Millimeter wave (mm-Wave) wireless communication systems require high gain antennas to overcome path loss effects and thereby enhance system coverage. This paper presents the ...

Our DAS is compatible with 5G millimeter waves and is ...

For illustrating the potential of the proposed prototype in the application of a smart 6G base station, we take the proposed system to assist a millimeter-wave base station and ...

A new compact, wideband, millimeter-wave microstrip crossover--designed without vias--demonstrates effective performance with an insertion loss of 2 dB across a wide ...

This paper presents the design and analysis of an antenna array for high gain performance of future mm-wave 5G communication systems.

A new compact, wideband, millimeter-wave microstrip crossover--designed without vias--demonstrates effective performance ...

Our DAS is compatible with 5G millimeter waves and is characterized by the extremely compact size of the DAS remote unit (millimeter-wave antenna), which is ...

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The architecture and requirements of millimeter-wave communication systems are analyzed, and the application cases of novel antennas in millimeter-wave communication ...

Here, we propose a large-scale 2-bit millimeter-wave programmable metasurface to build an integrated smart base station framework for 6G communications. The meta-array is ...

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