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New wide-bandwidth plasmonic antennas are intrinsically small, efficiently operating at THz. Contrary to electronic and optical technologies relying on up-conversion of microwave and mm-wave ...

45 Million of 5G small cells will be installed by 2031 forecasts

IDTechEx

The number of smartphones, laptops and other devices connected to the internet is continuously increasing. This expanding network of connected devices, also known as the Internet of Things (IoT), ...

Researchers realize a printed millimetre-wave modulator and antenna array for backscatter communications

The first [1] investigated analogue television transmissions, while the

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second [2] covered ... IET Microwaves, Antennas & Propagation is dedicated to the coverage of microwave and RF circuits, ...

IET Journals: the papers that paved the way

It's Wednesday, June 23rd, I'm your host Jason Moser and on this week's Wildcard Wednesday show we're talking 5G with a special guest. Rajat Prakash is the principal engineer with the Wireless ...

5G Is About More Than Your Phone

hence making the observation of wave-like heat propagation possible. We show that this approach is robust enough to expose second sound independently, to a certain extent, of the phonon scattering ...

Observation of second sound in a rapidly varying temperature field in

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Ge

AT&T now covers more than 250 million people across the U.S. with its flavor of 5G, which includes low-band spectrum in large parts of the country. It reached that goal a full six months earlier than ...

AT&T hits 250M milestone with 5G low-band coverage

Tom Marzetta developed the principles of Massive MIMO in the summer of 2006, and at the time, the idea of having 100 active antennas ... bringing in much more wave propagation physics into ...

Massive MIMO gains ground in 5G, but still not reaching its full potential: inventor

A study published in Science Advances reports on the unexpected observation of thermal waves in germanium, a semiconductor material,

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for the first time. This phenomenon may allow a significant ...

Thermal waves observed in semiconductor materials

Massive MIMO is also needed to overcome severe propagation losses in mm-wave bands, where large swaths of spectrum is available. If a MIMO system uses legacy dumb antennas with fixed properties, the ...

SBIR Phase II: Multifunctional Reconfigurable Antenna Array
Technology for Wi-Fi and 5G Small Cell Access Points

Two cases of the Kappa strain of Covid-19 have now been discovered in Uttar Pradesh, after two patients were identified with having the Delta plus strain in Deoria and Gorakhpur.

Delta, Delta Plus, Kappa, Lambda: All Covid-19 Variants Explained

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She received an MS in Electrical Engineering and a PhD in Physics and Mathematics from Tomsk State University, in Russia, and a second PhD in Materials ... IASTED International Conference on Antennas, ...

Elena Semouchkina

The commercially available AI-based propagation model aims to ... and spans multiple sub-6 GHz and millimetre wave bands, geographic locations, antenna heights, weather conditions, seasonal ...

Infovista unveils Artificial Intelligence Model

Researchers at the National Institute of Standards and Technology (NIST) and Wavsens LLC have developed a method for using radio signals to create real-time ...

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NIST Method Uses Radio Signals to Image Hidden and Speeding Objects

Digitimes is reporting today that Apple has amassed a group of 5 millimeter wave antenna suppliers, as Apple intends to expand millimeter wave antennas to more iPhone models in 2021. This was ...

A Rumor report confirms that Apple will be expanding its range of 5G iPhone models with Millimeter Wave antennas this year & more Insurgents are issuing new orders to captured territories, banning smoking and beard-shaving and ordering villagers to marry off their daughters to foot-soldiers in Afghanistan.

Shaving or smoking is outlawed and women are banned from leaving the house in Taliban-controlled parts of Afghanistan as the terror

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group implement their harsh Islamic rule

Jun 30, 2021 (The Expresswire) -- "Final Report will add the analysis of the impact of COVID-19 on this industry" Global " Automotive Antenna Module ...

Automotive Antenna Module Market Size Report Identify the Latest Developments, Market Shares and Strategies 2021 to 2024

Ham radio operator Lloyd Cabral sits in the station he built inside his Hawaiian Paradise Park home, headphones on and finger moving on a CW, or continuous wave ... antennas, the study in ...

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