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Title: Special review of 5g communication base station energy management system

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A literature review is presented on energy consumption and heat transfer in recent fifth-generation (5G) antennas in network base stations.

With the rapid development of 5G base station construction, significant energy storage is installed to ensure stable communication. However, these storage resources often remain idle, ...

In today's 5G era, the energy efficiency (EE) of cellular base stations is crucial for sustainable communication. Recognizing this, Mobile Network Operators are actively prioritizing EE for both ...

To further explore the energy-saving potential of 5 G base stations, this paper proposes an energy-saving operation model for 5 G base stations that incorporates communication caching and ...

The electricity cost of 5G base stations has become a factor hindering the development of the 5G communication technology. This paper revitalized the energy storage resources of 5G...

The intelligent energy-saving solutions based on artificial intelligence (AI) and big data technologies to forecast and optimize the management of 5G wireless network energy consumption ...

Due to infrastructural limitations, non-standalone mode deployment of 5G is preferred as compared to standalone mode. To achieve low latency, higher throughput, larger capacity, higher reliability, and ...

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