



Electromagnetic Waves and Particles in Earth's Radiation Belt

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

The focus of this Special Issue is the propagation of ULF/VLF/ELF electromagnetic waves in the inhomogeneous, magnetized plasma and interactions between these waves and energetic particles in the Earth's radiation belt. The interest in these problems is motivated by the novel, frontier physics of wave propagation in highly inhomogeneous, magnetized plasma and by the ability of these waves to interact efficiently with energetic particles in the radiation belts. Recently, complex and expensive space and ground-based experiments have been proposed to further address the understanding of various aspects of radiation belt physics. Obviously, the success of these experiments will strongly depend on a comprehensive and quantitative understanding of wave dynamics and wave-particle interactions in the magnetosphere. We invite papers focusing on theory, modeling, and observations of ULF, VLF, and ELF waves and wave-particle interactions in the Earth's radiation belt.

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