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State-of-the-art observational aspects of MHD waves in the lower atmosphere

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MHD waves are recognized as significant contributors to the energy budget of the solar atmosphere, the acceleration of the solar wind and the composition of coronal plasma. Recent advancements in instrumentation, techniques, and processing methods have unlocked new diagnostic capabilities for exploring the excitation and propagation of MHD waves within various magnetic structures in the solar atmosphere. In this contribution a broad state-of-the-art overview of recent advancements in the identification, characterization and analysis of oscillations observed in diverse magnetic configurations in the lower solar atmosphere will be provided. Special attention will be given to the perspectives that upcoming instruments will introduce to the field.

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