



## Advanced MRI Imaging and Diagnostics in Lung Disease

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Deadline for manuscript  
submissions:

**closed (29 February 2024)**

### Message from the Guest Editor

Historically, the MRI of lungs has been clinically challenging and under-utilized, especially when compared to other organ systems, due to inherent low MR signals and additional complications stemming from respiratory and cardiac motion. However, with the recent development of advanced acquisition and analysis techniques, MRI can now provide unique insights into the pathophysiology of numerous pulmonary diseases. When coupled with its non-ionizing radiation nature, advanced MRI techniques are particularly applicable in longitudinal studies of lung diseases and in pediatric subjects. Modern MRI techniques with both proton-based and inhaled gas (hyperpolarized  $^{129}\text{Xe}$  or fluorinated gases) lung MRI methods offer novel information on lung structure and function that is unavailable with other imaging modalities. These modern lung MRI techniques have driven the field forward and have allowed MRI to evolve from a research tool to a promising clinical tool for lung disease diagnosis and monitoring.

This Special Issue will feature original research articles and reviews that focus on advanced or novel applications of MRI imaging for diagnosing and monitoring lung diseases.





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## Editor-in-Chief

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