Stratospheric Science and Beyond Future Prospects and Challenges

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This article explores the present state of stratospheric science and delves into the exciting prospects and daunting challenges that lie ahead. The stratosphere, a critical component of Earth's atmosphere, is of paramount importance for climate and environmental health. Current achievements in understanding the stratosphere, such as ozone depletion mitigation and improved circulation modeling, provide a foundation for future research. The prospects for stratospheric science encompass climate change implications, stratosphere-troposphere interactions, geoengineering considerations, and continued exploration. Challenges include monitoring and data collection, assessing the risks of geoengineering, fostering international cooperation, and ensuring su cient funding. By addressing these prospects

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