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Advances in Star Formation in the Milky Way

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submissions:

closed (31 January 2024)

Message from the Guest Editors

Dear Colleagues,

This Special Issue is to gather around recent works in the study of Galactic star formation, aimed at highlighting significant progresses addressing open questions in the context. We welcome contributions on various topics of Galactic star formation, including but not limited to the formation and dynamics of hierarchical molecular cloud structures, ranging from giant molecular clouds (GMCs) to dense cloud cores, the nature of interstellar turbulence and its impact on molecular cloud evolution, the strength and morphology of interstellar magnetic fields and their roles in star formation, the origin of initial mass function (IMF) and its relation to star cluster formation, the initial conditions and mass assembly processes leading to the birth of stars of different masses, the mechanisms of binary and multiple star formation, jets, outflows, and accretion disks in protostars and young stellar objects (YSOs), star formation in extreme environments such as the Galactic center and mini starburst regions, feedbacks from newborn stars.

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Special Issue



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Message from the Editor-in-Chief

The multidisciplinary *Universe* journal is aiming to follow and, hopefully, to lead to the largest extent as possible the ever-self renovating threads which weave mathematical theories with our understanding of the magnificent natural world. On behalf of all the distinguished members of the editorial board, I extend my welcome to this new journal and look forward to hearing from the interested contributors and learning about their valuable research.

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