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Small Bodies in the Solar System

Guest Editors:

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Deadline for manuscript submissions:
closed (10 August 2022)

Message from the Guest Editors

Approximately 10^5 tons of extra-terrestrial material, also known as meteoroids, enter the Earth's atmosphere annually. Impacts release tremendous amounts of energy that could have profound effects on both the surface and interior of the target body, as well as its atmosphere, if one is present. While meteoroids (and asteroids) might produce craters on airless bodies, planetary atmospheres act as a cushion and a conduit for a series of physical phenomena to occur, including shockwaves. Additionally, while a typical meteoroid may affect the chemistry of the localized region of atmosphere, giant impacts have the potential to induce long-term chemical modification of atmosphere. Interest in meteor studies has flourished recently, mainly due to a large bolide that exploded over Chelyabinsk, Russia, in 2013, providing a sobering reality of the destructive potential of such impacts. The advent of more sophisticated observational techniques and numerical models has facilitated advancements in the domain of meteor science. We welcome contributions on the topic of meteoroid interactions with planetary atmospheres, with implications for planetary defence and space mission planning.

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Message from the Editor-in-Chief

The multidisciplinary journal *Universe* 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 Advisory and Editorial Boards, I extend my welcome to this journal and look forward to hearing from the interested contributors and learning about their valuable research.

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