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Toward the structure, origin, evolution, and dynamics of the moon and rocky planets

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Since the researchers on planetary science have increased and spread over various regions in Japan for these two decades, it is desirable for the Japanese planetary science community to construct a structure developing and accumulating ideas, technologies and visions for planetary exploration, which work as a driving force for the planning and executing new planetary exploration missions. As a starting step for it, we will provide our scientific perspective for exploration of the interior of the moon and rocky planets on the basis of a review on the progress of planetary interior exploration after the Apollo lunar missions and the new trend of earth interior science.

Keywords: planetary exploration, moon, rocky planets, planetary interior, origin and evolution, dynamics