
RESEARCH ARTICLES

PLANETARY SCIENCES

- 283 *MeiJuan Yao, Jun Cui, XiaoShu Wu, YingYing Huang, and WenRui Wang*
Variability of the Martian ionosphere from the MAVEN Radio Occultation Science Experiment
(doi: 10.26464/epp2019029)

- 290 *WeiJia Sun, Liang Zhao, Yong Wei, and Li-Yun Fu*
Detection of seismic events on Mars: a lunar perspective (doi: 10.26464/epp2019030)

- 298 *Pan Yan, ZhiYong Xiao, YiZhen Ma, YiChen Wang, and Jiang Pu*
Formation mechanism of the Lidang circular structure in the Guangxi Province
(doi: 10.26464/epp2019031)

SPACE PHYSICS

- 305 *HuaYu Zhao, Xu-Zhi Zhou, Ying Liu, Qiu-Gang Zong, Robert Rankin, YongFu Wang, QuanQi Shi, Xiao-Chen Shen, Jie Ren, Han Liu, and XingRan Chen*
Poleward-moving recurrent auroral arcs associated with impulse-excited standing hydromagnetic waves (doi: 10.26464/epp2019032)

MARINE GEOPHYSICS

- 314 *WenAi Hou, Chun-Feng Li, XiaoLi Wan, MingHui Zhao, and XueLin Qiu*
Crustal S-wave velocity structure across the northeastern South China Sea continental margin: implications for lithology and mantle exhumation (doi: 10.26464/epp2019033)

SOLID EARTH

- 330 *Mei Li, Li Yao, YaLi Wang, Michel Parrot, Masashi Hayakawa, Jun Lu, HanDong Tan, and Tao Xie*
Anomalous phenomena in DC–ULF geomagnetic daily variation registered three days before the 12 May 2008 Wenchuan M_s 8.0 earthquake (doi: 10.26464/epp2019034)

- 342 *YouShan Liu, Tao Xu, YangHua Wang, JiWen Teng, José Badal, and HaiQiang Lan*
An efficient source wavefield reconstruction scheme using single boundary layer values for the spectral element method (doi: 10.26464/epp2019035)

LETTERS

SPACE PHYSICS

- 358 *Jing Huang, Meng Zhou, HuiMin Li, XiaoHua Deng, Jiang Liu, and ShiYong Huang*
Small-scale dipolarization fronts in the Earth's magnetotail (doi: 10.26464/epp2019036)

- 365 *Jiang Yu, Jing Wang, and Jun Cui*
Ring current proton scattering by low-frequency magnetosonic waves (doi: 10.26464/epp2019037)

COVER

In Hou WA, and Li C-F, et al. (10.26464/epp2019033), seismic velocity models derived from tomographic inversion and calculated V_p/V_s ratios show regional physical property changes in the northern South China Sea continental margin. Hou WA and Li C-F further analyzed V_p/V_s versus V_p in the lower crust high velocity zone near the continent-ocean boundary (COB) and revealed a possible 37–43% degree of serpentinization of the upwelled uppermost mantle near the COB. See pages 314–329.