

American Journal of Science

FEBRUARY 2022

CONTENTS

Preface		
	<i>Simon A. Wilde, Shoujie Liu, Yamirka Rojas-Agramonte, and Guochun Zhao</i>	vii
Foreword		xii
Detrital zircon provenance of the Archean Moodies Group, Barberton Greenstone Belt, South Africa and Eswatini		
	<i>Christoph Heubeck, Nadja Drabon, Gary Byerly, Isabelle Leisgang, Ulf Linnemann, Don Lowe, Regina Mertz-Kraus, Alejandra Gonzalez-Pinzon, Tonny B. Thomsen, Armin Zeh, Yamirka Rojas-Agramonte, and Alfred Kröner</i>	65
Paleo- to Mesoarchean crustal growth in the Karwar block, southern India: Constraints on TTG genesis and Archean tectonics		
	<i>C. Ishwar-Kumar, K. Sajeev, M. Satish-Kumar, Ian S. Williams, Simon A. Wilde, T. Hokada, and Brian F. Windley</i>	108
A Neoproterozoic to Paleoproterozoic magmatic arc in the Trans-North China Orogen: Petrological and geochemical constraints from the Tianzhen gneisses in the Huai'an Complex		
	<i>Dingyi Zhao and Min Sun</i>	164
An early Paleozoic active continental margin basin along the southern Chinese Altai: Evidence from high-grade paragneisses in the Fuyun region		
	<i>Xing Cui, Min Sun, Guochun Zhao, Jinlong Yao, Yunying Zhang, and Yigui Han</i>	190
Cyclicity of multistage anatexis of deeply subducted continental crust during the North Qaidam orogeny: Tracing the source, timescale, and evolution of pulsed melts		
	<i>Xin Chen, Hans-Peter Schertl, Aitor Cambeses, Emma Hart, Chenggui Lin, Rongke Xu, and Youye Zheng</i>	225

- Contrasting styles of peraluminous S-type and I-type granitic magmatism: Identification and implications for the accretionary history of the Chinese South Tianshan
Zaili Tao, Jiyuan Yin, Wenjiao Xiao, Reimar Seltmann, Wen Chen, Min Sun, Tao Wang, Chao Yuan, Stuart N. Thomson, Yuelong Chen, and Xiaoping Xia 280
- Early carboniferous rifting of the Harlik arc in the Eastern Tianshan (NW China): Response to rollback in the southern Altaids?
Liang Li, Wenjiao Xiao, Brian F. Windley, He Yang, Xiaoliang Jia, Miao Sang, Nijiati Abuduxun, and Yin Liu 313
- Late carboniferous continental arc magmatism in the southeastern Central Asian Orogenic Belt: insights from the Erenhot granitic pluton, Inner Mongolia
Bing Xu, Guochun Zhao, Jinlong Yao, Peng Wang, Yanhong He, Yigui Han, Hai Zhou, and Bo Wang 351
- North-dipping relict subduction of the Paleo-Asian Ocean at the southeastern margin of the Mongolian Terrane: Study of two parallel deep seismic profiles
Wei Fu, Hesheng Hou, Rui Gao, Haiyan Wang, Lei Guo, Jianbo Zhuo, Jin Yang, Rui Guo, and Zongdong Pan 380
- Constraints on the rollback of the Neo-Tethyan oceanic plate: Geochronology and geochemistry of volcanic rocks from the Dianzhong Formation, western Gangdese belt (Tibetan Plateau)
Zhen Wang, Yuruo Shi, Tianshui Yang, J. Lawford Anderson, Chenyang Hou, Yuelan Kang, Wenxiao Peng, Yiming Ma, and Weiwei Bian 396