



国家自然科学基金
基金委员会
National Natural Science
Foundation of China

International Association for Gondwana Research

2022 Annual Convention & 19th International Symposium on Gondwana to Asia

FOURTH CIRCULAR



November 4-7, 2022, Chengdu

Organized by

- State Key Laboratory of Oil and Gas Reservoir Geology and Exploitation
- Key Laboratory of Reconstruction and Application of Deep-time Geographic Environment, Ministry of Natural Resources
- Key Laboratory of Tectonic Controls on Mineralization and Hydrocarbon Accumulation of Ministry of Natural Resources
- Applied Nuclear Technology in Geosciences Key Laboratory of Sichuan Province
- College of Earth Sciences, Chengdu University of Technology
- College of Energy, Chengdu University of Technology

Introduction

The 2022 Annual Convention of the International Association for Gondwana Research (IAGR) and 19th International Symposium on Gondwana to Asia will be held in Chengdu, China, during November 4-7, 2022, organized by the Chengdu University of Technology, jointly with the IAGR.

The conference will commence with registration and ice breaker on November 4, and oral and poster sessions for 2 days during November 5-6, 2022. Subsequently, a 1-day field excursion will be conducted in the Emeishan Large Igneous Province (ELIP) and related areas during November 7, 2022.

The IAGR annual conventions and Gondwana to Asia international conference series provide a global platform for presentation of new information and exchange of scientific knowledge on the history of supercontinents, cratons and continents, major orogenic belts, life evolution, resources and environment. The annual conventions of IAGR have high reputation as venues for the advancement of science, and one of the best platforms for interaction with renowned geoscientists. The focal themes for the 2022 conference are as follows:

- Continents, cratons and supercontinents
- Tectonics and metallogeny
- Life evolution and surface environment
- Sedimentary basin evolution and petroleum system

The official language of the conference is English.

Scientific committee

Chair:

Ming-Cai Hou (Chengdu University of Technology, China)

Co-Chairs:

M. Santosh (China University of Geosciences, Beijing, China)

San-Zhong Li (Ocean University of China, China)

Yun-Peng Dong (Northwest University, China)

Members:

M. Yoshida (Japan)

J.G. Meert (USA)

R.D. Nance (USA)

D.I. Groves (Australia)

S. Kwon (South Korea)

T. Tsunogae (Japan)

C.X. Yang (China)

I. Safonova (Russia)

S. Glorie (Australia)

J.L. Liu (China)

F. Pirajno (Australia)

L. Tang (China)

A. Vasanthi (India)

H.W. Cao (China)

Z.W. Li (China)

H. Zou (China)

Organizing committee

Chair:

Ming-Cai Hou (Chengdu University of Technology, China)

Co-Chairs:

M. Santosh (China University of Geosciences, Beijing, China)

Zhi-Wu Li (Chengdu University of Technology, China)

Hao Zou (Chengdu University of Technology, China)

Members:

J.G. Meert (Australia)

S. Kwon (South Korea)

I. Safonova (Russia)

R.M. Palin (U.K.)

A. Festa (Italy)

D. Lingley (Japan)

E. Shaji (India)

H.W. Cao (China)

X.J. Wang (Chengdu University of Technology, China)

A.Q. Chen (Chengdu University of Technology, China)

X.G. Lang (Chengdu University of Technology, China)

F.H. Xiong (Chengdu University of Technology, China)

X.H. Lang (Chengdu University of Technology, China)

H. Huang (Chengdu University of Technology, China)

Q. Ren (Chengdu University of Technology, China)

Schedule

- November 4, 2022: Registration and ice breaker.
- November 5-6, 2022: Inaugural function and keynotes, oral and poster presentations, Gondwana Research 2022 Best Paper Award Ceremony, Geoscience Frontiers Best Paper Award Ceremony, IAGR Best Student Poster Award, IAGR General Assembly, IAGR Executive Council Meeting, Gondwana Research and Geoscience Frontiers Annual Editorial Board Meetings.
- November 7, Field excursion to Emeishan Large Igneous Province (ELIP).

NOTE: If the situation for COVID-19 is still serious, our meeting will be conducted in a hybrid way, both physical and virtual.

Presentation and poster style

Language: English

Keynote Talk: 25 minutes (normal length of 20' plus 5' for Q&A).

Oral Presentation: 15 minutes (normal length of 12' plus 3' for Q&A).

All technical session halls are equipped with a PC. All speakers must provide your presentation PowerPoint to organizers and copy them into the equipped PC at least 4 hours before your scheduled presentation. The decision by the conference organizers to place your oral presentation in a special session is final. **The conference screen is 16:9, so a PPT layout of 16:9 is suggested.**

Poster (November 5 to 6): Please prepare your poster using the attached template (120×80 cm). **Poster submission deadline: Oct. 24th.** E-mail your poster to zouhao@cdut.edu.cn with a

copy to lizhiwu06@cdut.edu.cn. We will help you to print it out and stick it in the exhibition hall. Posters will be on display 9 a.m.–6 p.m. during the meeting. Authors should be present either 9–12 a.m., 1–6 p.m. or 8–10 p.m. and are encouraged to be at their posters during the coffee breaks as well.

NOTE: Please check your report material, to ensure accuracy. If you have any questions, you can E-mail to zouhao@cdut.edu.cn with a copy to lizhiwu06@cdut.edu.cn.

Registration and field excursion fee

- Registration fee: Professional delegates: RMB¥ 1200; Student delegates: RMB¥ 700, including abstract volume, ice breaker, working lunch and symposium banquet.
- Excursion fee: Professional delegates: RMB¥ 600; Student delegates: RMB¥ 300.

NOTE: On-site payment. No registration fee for online participation.

Abstracts

Abstracts should follow the format of Gondwana Research (<http://www.sciencedirect.com/science/journal/aip/1342937X>) and can be up to three printed pages with a maximum of one figure (in jpg format) and one table (in Excel format). The abstract volume will be published as a Conference Series volume of the IAGR. E-mail your abstract files to: zouhao@cdut.edu.cn with a copy to chengxue.yang@qq.com. The text and table if any should be in an editable Word file and the figure should be in .jpg or .tiff file.

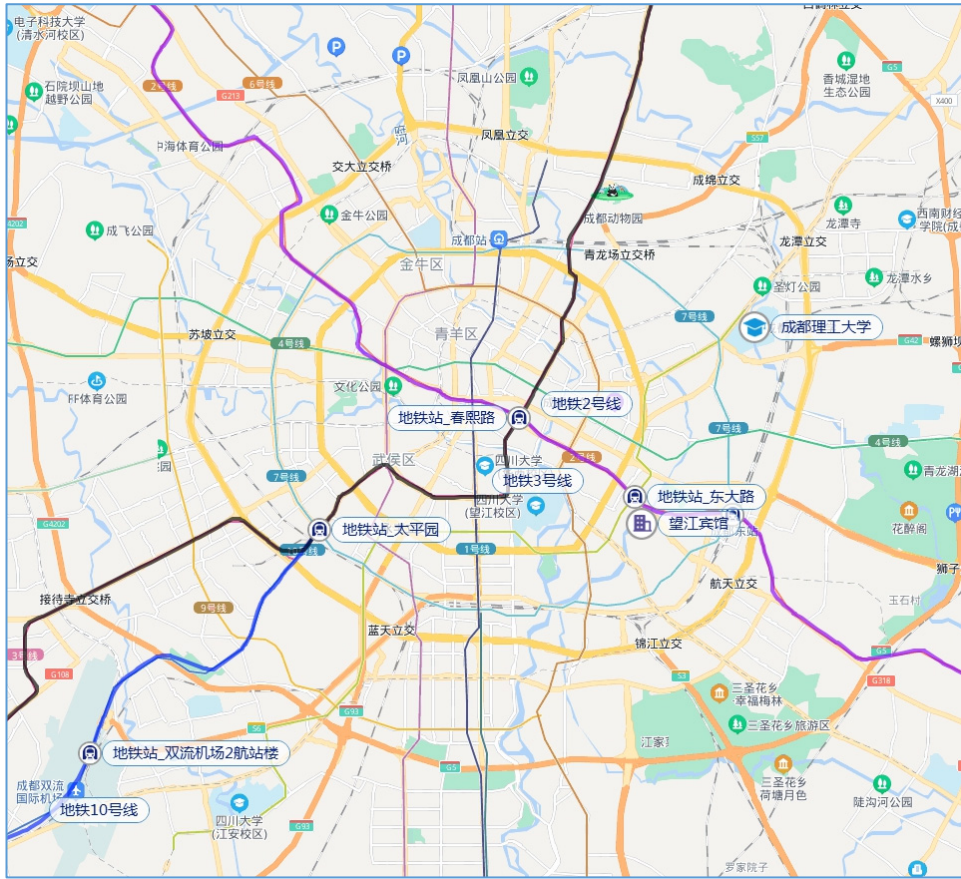
Conference location and Accommodation

The Conference will be held in and all participants will stay in the Chengdu Wangjiang Hotel, located at 42 Xiashahepu, Chengdu (成都望江宾馆, 成都市锦江区下沙河铺街42号). A room (single or two-bed), including breakfast, costs RMB ¥550 per day. We will help you with your room reservation according to your choice in the registration form. The conference is in the Juying Hall, 2th floor of Wufu Building. Buffet is on the Phuket Restaurant, 1st floor Wangjiang Club.

Access

Chengdu Shuangliu International Airport成都双流国际机场: It is about 20 km to the airport. It takes about 35 minutes by taxi and about 60 minutes by subway (Line 10→Line 3→Line 2, get off at the Dongda Road; 地铁10号线→3号线→2号线至东大路下车).

Chengdudong Railway Station成都东站: It is about 5 km and takes about 15 minutes by subway (Line 2, get off at the Tazishan Park station; 地铁2号线至塔子山公园地铁站下车).



The Chengdu University of Technology and IAGR cordially invite you to participate in this important international conference.

Conference Secretariate

Mingcai Hou

Zhiwu Li

Hao Zou*

State Key Laboratory of Oil and Gas Reservoir Geology and Exploitation

Chengdu University of Technology, Chengdu 610059, China

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Preliminary program schedule

Location: Juying Hall, 2th floor of Wufu Building, Chengdu Wangjiang Hotel (会议地点: 成都望江宾馆五福楼二楼聚英厅)

Oral Presentation:

KT: Keynote Talk

Nov. 4	
10:00-20:00	Registration
17:30-20:00	Ice Breaker
Nov. 5	
08:00-09:00	Inaugural ceremony (Chairman: Mingcai Hou)
	Welcome Address from Univ. President Qingyou Liu
	Opening Ceremony Address by IAGR Secretary General: M. Santosh
	Greetings from IAGR President: Yunpeng Dong
	Group Photo: Upstairs at the Lobby
09:00-10:15	Chairman: Mingcai Hou, Yunpeng Dong
09:00-09:25	Robert Stern, Prof., University of Texas at Dallas, USA KT01: Co-Evolution of Plate Tectonics and Life: The Biogeodynamic Perspective on the Mesoproterozoic-Neoproterozoic Transitions (online)
09:25-09:50	M. Satish Kumar, Prof., Niigata University, Japan KT02: Carbon in orogenic belts: Sink or source for atmospheric CO₂ fluctuations? (online)
09:50-10:15	Biswajeet Pradhan, Prof., University of Technology Sydney, Australia KT03: Artificial Intelligence: A New Era for Spatial Modeling and Interpreting Climate-induced Hazard Assessment (online)
10:15-10:35	Coffee break and Poster presentation
10:35-11:50	Chairman: Mingcai Hou, Zhiwu Li
10:35-11:00	Yunpeng Dong, Prof., Northwest University, China KT04: Cross Orogenic Belts in Central China: Implications for the tectonic and paleogeographic evolution of the East Asian continental collage
11:00-11:25	Sanzhong Li, Prof., Ocean University of China, China KT05: Microplate Tectonics: A new tectonic paradigm
11:25-11:50	Sebastian Tappe, Prof., UiT The Arctic University of Norway, Norway KT06: The rich kimberlite record of Gondwanaland (online)

11:50-12:50	Lunch break and Poster presentation
12:50-15:05	Chairman: Sanzhong Li, Hao Zou
12:50-13:15	Richard Palin, Dr., University of Oxford, UK KT07: Crustal melting through time and the rise of metal-rich magmas (online)
13:15-13:40	Franco Pirajno, Prof., University of Western Australia, Australia KT08: Carbonatites and associated REE mineral systems (online)
13:40-14:05	Mingcai Hou, Prof., Chengdu University of Technology, China KT09: Neoproterozoic magmatic-sedimentary events in western Yangtze Block, South China: Implications for tectonic evolution of Rodinia supercontinent
14:05-14:20	Inna Safonova, Prof., Novosibirsk State University, Russian Tracing archives of intra-oceanic arcs and tracking periods of subduction erosion (online)
14:20-14:35	Longyi Shao, Prof., China University of Mining and Technology (Beijing), China Paleo-peatlands as organic carbon pools in geological history
14:35-14:50	Dengfa He, Prof., China University of Geoscience (Beijing), China Tectonic evolution of the fold-and-thrust belt at the western margin of Ordos Basin: Insights into characteristics of the intra-continental deformation
14:50-15:05	Zhiwu Li, Prof., Chengdu University of Technology, China Differential exhumation across the eastern Tibetan Plateau margin: Linking plateau growth to paleo-Tethys closure
15:05-15:25	Coffee break and Poster presentation
15:25-18:25	Chairman: Dengfa He, Zhiwu Li
15:25-15:40	Tomokazu Hokada, Prof., National Institute of Polar Research, Japan Crustal architecture of Indian Sector of the Antarctic continent - update of recent two decades (online)
15:40-15:55	Jian Zhang, Prof., Sun Yat-sen university, China Neoproterozoic Vertical Tectonism in eastern North China: Structure, Metamorphism and Numerical Modeling
15:55-16:10	Shaji Erath, Prof., University of Kerala, India Arsenic contamination in water and its health impacts (online)
16:10-16:25	Yongjiang Liu, Prof., Ocean University of China, China Orocline in the eastern Central Asian Orogenic Belt
16:25-16:40	Min Zeng, Prof., Yunnan University, China Reconstructing Ocean-Plate Stratigraphy to understand Late Triassic-Early Jurassic subduction-accretion history of the Meso-Tethys
16:40-16:55	Xianguo Lang, Prof., Chengdu University of Technology, China Active biogeochemical cycles during the snowball Earth
16:55-17:10	Jinglong Yao, Prof., Northwest University, China Transition of tectonic regime and Earth surface system during Gondwana assembly
17:10-17:25	Bo Ran, Prof., Chengdu University of Technology, China The Earliest Paleozoic Foreland Basin in South China Block During the Rodinia – Gondwana Transition
17:25-17:40	Qiang Ren, Prof., Chengdu University of Technology, China New Carboniferous paleomagnetic data from Mongolia and their implications for the paleogeographic evolution of the Central Asian Orogenic Belt
17:40-17:55	Ni Tao, Associate Prof., Northwest University, China Thermal evolution of the central Cathaysia Block in response to subduction of the proto-Western Pacific margin
17:55-18:10	Thomas Bader (German), Dr., Peking University, China The Triassic lower crust in West Qinling and the strict dichotomy of the Qinling–Dabie Orogen
18:10-18:25	Anfisa Skoblenko, Dr., Geological Institute of the Russian Academy of Sciences, Russian

	Latest Cambrian stage of metamorphism in the Aktyuz high-pressure complex (North Tien Shan; western part of the Central Asian Orogenic Belt): evidence from migmatized garnet-mica gneisses (online)
18:25	Banquet
19:30	GR & GSF Best Paper Award Ceremony
20:00	IAGR Executive Council Meeting (online)
Nov. 6	
08:00-10:20	Chairman: Longyi Shao, Xianguo Lang
08:00-08:25	Richard Goldfarb, Prof., China University of Geoscience (Beijing), USA KT10: Did your gold deposit form below 3 km? It is NOT intrusion-related (online)
08:25-08:50	Li Tang, Associate Prof., China University of Geosciences (Beijing), China KT11: Long-lived Paleoproterozoic collision process over 150 Myr in the Trans-North China Orogen
08:50-09:05	Joseph Gerard Meert, Dr., University of Florida, USA Quantitative Assessment of Supercontinent Reconstructions (online)
09:05-09:20	Hao Zou, Prof., Chengdu University of Technology, China An oxygen-isotope perspective on the early-middle Triassic Supervolcano in the Yangtze Block, South China
09:20-09:35	Nengsong Chen, Prof., China University of Geoscience (Wuhan), China Precambrian Tectonothermal Events recorded in North Dabie block and implications for Paleo-continental evolution
09:35-09:50	Chunfeng Li, Prof., Zhejiang University, China Geothermal state and lithospheric strength of Chinese continent
09:50-10:05	Qian Liu, Prof., Northwest University, China A Tarim-North India connection in northern Gondwana associated with final closure of the Proto-Tethys Ocean: Constraints from provenance of early Paleozoic sedimentary rocks in the Altyn Tagh orogen
10:05-10:20	Hu Huang, Associate Prof., Chengdu University of Technology, China Eruptive tempo of Emeishan large igneous province: Relations to biotic crises and paleoclimate changes around the Guadalupian-Lopingian boundary
10:20-10:40	Coffee break and Poster presentation
10:40-12:10	Chairman: Yongjiang Liu, Ni Tao
10:40-10:55	Zeyang Liu, Prof., Chengdu University of Technology, China Advances of Re-Os dating for organic-rich sedimentary rocks
10:55-11:10	Liang Qi, Dr., Chengdu University of Technology, China Neoproterozoic sedimentary records in South China: Implication for the supercontinent reconstruction
11:10-11:25	Thoti. Yellappa, Dr., National Geophysical Research Institute, Uppal Road, India Geochemical constrains on metacarbonates from the Cauvery Suture Zone, Southern Granulite Terrane, India (online)
11:25-11:40	Vinod Oommen Samuel, Dr., Yonsei University, India Metamorphic evolution of Precambrian Seosan Group meta-sediments, South Korea (online)
11:40-11:55	Fumiko Higashino, Dr., Kyoto University, Japan Multiple timings of garnet-forming high-grade metamorphism and Cl-rich mineral formation in the Neoproterozoic continental collision zone in the Sør Rondane Mountains, East Antarctica (online)
11:55-12:10	Tetsuo Kawakami, Dr., Kyoto University, Japan Long-lived high-temperature metamorphism followed by clockwise P-T path from Menipa, Sør Rondane Mountains, East Antarctica (online)
12:10-13:10	Lunch break and Poster presentation
13:10-15:05	Chairman: Li Tang, Fuhao Xiong
13:10-13:35	Carlo Doglioni, Prof., Sapienza Università di Roma, Italy KT12: Mechanisms of geodynamics (online)

13:35-13:50	Chao Yang, Dr., Chengdu University of Technology, China High-grade hypogene porphyry Cu mineralization correlation to low-temperature and acidic hydrothermal alteration
13:50-14:05	Lushan Liu, Mr., Northwest University, China The activity analysis of the middle segment of Haiyuan fault zone based on DEM terrain feature factor
14:05-14:20	Ziqiang Yang, Dr., Northwest University, China Structural control on the 2021 M7.4 Maduo earthquake in NE Tibet: Crustal flow and fluids
14:20-14:35	Wei Wang, Dr., Northwest University, China Local MORB Mantle Heterogeneity Beneath the Southwest Indian Ridge: implications for the mantle processes during Gondwana break-up
14:35-14:50	Feixue Hu, Dr., Northwest University, China Characteristics and Significance of Upper Triassic Cod Fossils in Tongchuan Area, Southern Margin of Ordos Basin
14:50-15:05	Xuhui Wang, Dr., Chengdu University of Technology, China Copper behavior in arc-back-arc system: insight into the porphyry Cu metallogeny in the Gangdese belt, southern Tibet
15:05-15:25	Coffee break and Poster presentation
15:25-18:25	Chairman: Min Zeng, Qiang Ren
15:25-15:40	Jiaqi Ling, Dr., Guangzhou Institute of Geochemistry, China Impact of large-scale oroclinal bending on arc magmatism: insights from the Mongol-Okhotsk Orogen, Central Asia
15:40-15:55	Wei Luo, Dr., Chengdu University of Technology, China Key factors affecting hydrocarbon accumulation in ancient dolomite gas reservoirs of Xixiangchi Formation (southern Sichuan Basin, China)
15:55-16:10	Xiaodong Chen, Dr., Southern University of Science and Technology, China Generation of crystal-rich erupted products by fluid-driven crystal-mush remobilization: Perspective from the Nageng (sub-)volcanic complex, East Kunlun Orogen, NW China
16:10-16:25	Yuehua Wei, Dr., China University of Geoscience (Wuhan), China Reconstructing the Lancang Terrane (SW Yunnan) and implications for early Paleozoic Proto-Tethys evolution at the northern margin of Gondwana
16:25-16:40	Guozheng Sun, Dr., Ocean University of China, China Featured Neoproterozoic granitoid association in the central North China Craton: An indicator of warm plate subduction
16:40-16:55	Donghai Zhang, Dr., Northwest University, China Quantifying the extent of the Paleo-Asian Ocean during the Late Carboniferous to Early Permian
16:55-17:10	Qi Huang, Mr., Northwest University, China Activity analysis of the Longxian-Baoji fault zone in the northeastern margin of the Tibetan Plateau based on geomorphological parameters
17:10-17:25	Yang Wang, Mr., Northwest University, China Cenozoic tectonic activity characteristics of Qingshuihe Basin based on fluvial geomorphology and tectonic analysis
17:25-17:40	Bin Zhang, Mr., Northwest University, China Geochemical characteristics and tectonic significance of the Marzheng diorites on the southern margin of the East Kunlun Orogenic Belt
17:40-17:55	Zexin Wang, Mr., Chengdu University of Technology, China, China Relationship between early Paleozoic magmatic events and uranium mineralization in the northern China
17:55-18:10	Mei Li., Ms., Chengdu University of Technology, China Geochemical and uranium isotope variations in the Mengqiguer Sandstone-Type Uranium Deposit, Yili Basin, China

18:10-18:25	Best Poster Award & Closing Ceremony Chairman: M. Santosh
18:25	Dinner
20:00	Gondwana Research Editorial Board Meeting (online)
Nov. 7	Field trip: Emeishan Large Igneous Province (ELIP)
8:30	Assemble in the lobby at 08:20 and depart at 08:30

Posters:

Nov. 5-6			Displayed in the exhibition hall
No.	Presenter	Affiliation	Title
1	Pin Gao	China University of Geoscience (Beijing)	Neoarchean-Paleoproterozoic crustal evolution of the Wutai Complex, North China Craton
2	Chengxue Yang	China University of Geoscience (Beijing)	Global type area charnockites in southern India revisited: Implications for Earth's oldest supercontinent.
3	Fan Yuanqing	Chengdu University of Technology	Study on Process Mineralogy and Leachability of Qianjiadian Sandstone-Type Uranium Ore
4	Zhiwei Wang	Hebei GEO University	Forming Proterozoic basement within eastern Central Asian Orogenic Belt: Evidence from zircon U-Pb-Hf-O isotopes
5	Taichang Zhu	Hebei GEO University	Late Paleoproterozoic Gaositai Hornblendite in Northern North China Craton: Evidence from Zircon U-Pb Isotopes and Amphibole Trace Elements
6	Tao Xiao	Chengdu University of Technology	Integrated software for EPMA dating about uranium minerals
7	Mingxian Wang	China University of Geoscience (Beijing)	Trondhjemites and their Implications for Neoarchean crustal growth in the Qianxi Complex, North China Craton
8	Leitao Cao	China University of Geoscience (Wuhan)	Origin of fertile lithospheric mantle beneath eastern North China Craton: Combined effects from melt impregnation and asthenospheric cooling
9	Tao Zeng	China University of Geoscience (Beijing)	Geochronology and geochemistry of the Paleoproterozoic Fuping banded iron formation in the North China Craton: Implications for their origin and tectonic setting
10	Yuanming Sheng	China University of Geoscience (Beijing)	Distal gold mineralization associated with porphyry system: The case of Hongzhuang and Yuanling deposits, East Qinling, China
11	Minru Zhao	Northwest University	Origin and evolution of magma and tectonic implication of mafic dykes: The Permian diabases in Santanghu Basin, NW China
12	Shengsi Sun	Northwest University	Lithological and geochemical differentiation during ductile shearing: Insights from the Shagou shear zone, Qinling Orogen, China
13	Yanhui Suo	Ocean University of China	Cenozoic basement-involved rifting in the northern South China Sea margin
14	Jie Zhou	Ocean University of China	NE-trending transtensional faulting in the Pearl River Mouth basin of the Northern South China Sea margin

15	Yuhua Wang	Ocean University of China	Eocene thickening without extra heat in a collisional orogenic belt: A record from the Eocene metamorphism in mafic dike swarms within the Tethyan Himalaya, southern Tibet
16	Guangzeng Wang	Ocean University of China	Cenozoic provenance changes of the northern South China Sea and their implications for surrounding geomorphic and drainage evolution
17	Pengcheng Wang	Ocean University of China	Geochronology and detrital zircon provenance record of the Cenozoic strata in the Sabah: implication for Sabah Orogen evolution
18	Long Chen	Ocean University of China	Continental crust recycling in ancient oceanic subduction zones: Insights from paleo-trench sediments
19	Boran Liu	Ocean University of China	Geological control of the eastern Great Wall: Mountain-basin relationships in the eastern North China Craton
20	Masaru YOSHIDA	Gondwana Institute for Geology and Environment (Japan)	Traversing the Himalayan Orogen 2022-Report of the 10th Student Himalayan Field Exercise Tour
21	Xiaohu Zhou	Northwest University	Characteristics and environmental significance of late carboniferous brachiopods within the Qijiagou Area, Southern Margin of the Junggar Basin
22	Chao Wang	The University of Hong Kong	Calc-alkaline plutons in intra-oceanic arc of Proto-Tethys Ocean (Qilian Orogen, NW China) and implication for construction of arc upper continental crust
23	Huawen Cao	Chengdu Center, CGS	Himalayan leucogranites and rare metal mineralization: The role of crustal recycling and fractional crystallization
24	Haifeng Chen	Chengdu University of Technology	An oxygen-isotope perspective on the early-middle Triassic Supervolcano in the Yangtze Block, South China
25	Huidong Yu	Chengdu University of Technology	Geochemical and Hf-O isotopic evidence from the Mopanshan complex in the western margin of the Yangtze, South China: Implications for breakup of Rodinia Supercontinent
26	Changcheng Huang	Chengdu University of Technology	The Late Neoproterozoic rift magmatism in the margin of western Yangtze and Its Enlightenment to the onset of the Marinoan glaciation
27	Bo Hui	Northern Taibai Rd. 229th	Neoproterozoic tectonic evolution of the Bikou Terrane along the northwestern margin of the Yangtze Block
28	Bing Yu	China University of Geoscience (Beijing)	Multi-stage metamorphism of ultrahigh-temperature Mg-Al granulites during Gondwana assembly: Evidence from southern India
29	Fenghui Zou	China University of Geoscience (Wuhan)	Subduction-related mafic to felsic magmatism in the Xiangpishan concentric calc-alkaline arc complex, NE Tibetan Plateau