



School of Earth Sciences
and Engineering



State Key Laboratory of Critical
Earth Material Cycling and
Mineral Deposits (SK-CEMC&MD)



Key Laboratory of Surficial
Geochemistry, Ministry of
Education (KLSG-MOE)

24th General Meeting of the International Mineralogical Association (IMA)

Conference Handbook

Hosts:

Chinese Society for Mineralogy, Petrology and Geochemistry
Nanjing University
International Mineralogical Association

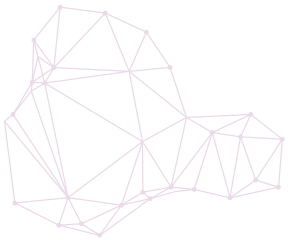
Organizers:

State Key Laboratory of Critical Earth Material Cycling and Mineral Deposits
School of Earth Sciences and Engineering, Nanjing University

Co-organizers:

State Key Laboratory of Deep Earth Processes and Resources
Key Laboratory of Surficial Geochemistry, Ministry of Education
Beijing Key Laboratory of Mineral Environmental Function
Key Laboratory of Solid Waste Treatment and Resource Recycle, Ministry of Education
Beijing Key Laboratory of Materials Utilization of Nonmetallic Minerals and Solid Wastes
Key Laboratory of Metallogeny and Mineral Resource Assessment, Ministry of Natural Resources

20-24 August 2026 · Nanjing, China



IMA 2026

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◆ Welcome Message ◆

Welcome to IMA 2026 in China: A New Chapter in Global Mineralogy

We are excited to invite the global mineralogy community to IMA 2026 – Mineralogy in Future, taking place from 20 to 24 August 2026 in Nanjing, Jiangsu Province, China. The General Meeting of the International Mineralogical Association is a major international forum for the mineralogical sciences. It brings together researchers in mineralogy, petrology, geochemistry, crystallography, mineral physics, materials science, and related fields to exchange results, discuss current questions, and strengthen connections across the mineralogical community. Following the General Meeting held in Beijing in 1990, IMA 2026 is the second IMA General Meeting to be hosted in China.

Mineralogical research now spans an increasingly wide range of scales, environments, and applications. Advances in analytical instrumentation, high-pressure experiments, computational modelling, and data-intensive methods allow minerals to be studied in greater detail and under more complex conditions. At the same time, research on deep-Earth and planetary materials is advancing alongside studies of mineral–fluid interactions, magmatic and metamorphic processes, ore-forming systems, and mineral evolution. Growing interest in critical mineral resources, environmental processes, carbon management, and sustainable materials is also opening new directions for mineralogical research.

During the meeting, participants will exchange results and ideas through plenary and medal lectures, scientific sessions, contributed presentations, and poster discussions. A museum visit and field excursions will take these exchanges beyond the conference venue. They will also provide opportunities to examine mineralogical and geological questions in their regional settings. Students and early-career researchers are encouraged to take an active part in the meeting and in the wider international mineralogical community.

Nanjing has a long tradition of geoscience education and research. The city is home to universities, research institutes, museums, and scientific collections that reflect its strong tradition in the Earth sciences. We warmly welcome colleagues from around the world to Nanjing and wish everyone a productive and enjoyable meeting.

Xiancai Lu
Chair of IMA 2026

◆ Committees and Organizers ◆

International Scientific Committee

Co-chair: Eiji Ohtani (Tohoku University)

Co-chair: Hans-Peter Schertl (Ruhr University Bochum)

Co-chair: Anhuai Lu (Peking University)

Members:

Anatoly Belonoshko (Nanjing University)

Tiziana Boffa Ballaran (University of Bayreuth)

Robert J. Bodnar (Virginia Tech)

Razvan Caracas (CNRS, École normale supérieure de Lyon)

Georgios E. Christidis (Technical University of Crete)

Rawil F. Fakhrullin (Kazan Volga Region Federal University)

G. Diego Gatta (University of Milan)

Hongping He (Guangzhou Institute of Geochemistry, Chinese Academy of Sciences)

Sung Keun Lee (Seoul National University)

Paolo Lotti (University of Milan)

Xiancai Lu (Nanjing University)

Lutz Nasdala (University of Vienna)

Gleb Pokrovski (University of Toulouse)

Nancy L. Ross (Virginia Tech)

Kevin M. Rosso (Pacific Northwest National Laboratory)

Akira Tsuchiyama (Ritsumeikan University, Guangzhou Institute of Geochemistry, Chinese Academy of Sciences)

Tatsuki Tsujimori (Tohoku University)

Rucheng Wang (Nanjing University)

Sasha Wilson (University of Alberta)

Qunke Xia (Zhejiang University)

Jingsui Yang (Nanjing University)



IMA 2026 Local Organizing Committee

Chair: Xiancai Lu

Members

Yuanfeng Cai	Tianhu Chen	Zhenyu Chen	Hongfei Cheng
Faqin Dong	Jianfeng Gao	Sheng Guo	Shengrong Li
Xiaorong Li	Wei Li	Yan Li	Libing Liao
Juan Liu	Xiandong Liu	Guocheng Lv	Pei Ni
Kunfeng Qiu	Hui Henry Teng	Quan Wan	Xiaoxia Wang
Xiaolei Wang	Xiang Wu	Lei Xie	Xisheng Xu
Cheng Xu	Huaming Yang	Xiaozhi Yang	Yan Yang
Peng Yuan	Aicheng Zhang	Junfeng Zhang	Chunhui Zhou
Gentao Zhou	Jianxi Zhu	Runliang Zhu	

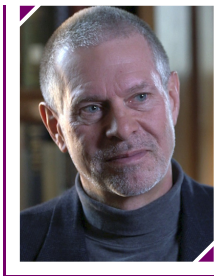
IMA 2026 Secretary group

Kai Wang	Huan Liu	Yunqiao Lu	Ning Liu
Jing Su	Yingchun Zhang	Qin Li	Huizi Zhang

Congress e-mail address: ima2026@nju.edu.cn

◆ Plenary Speakers ◆

Plenary Speaker



Robert M. Hazen

Carnegie Institution for Science

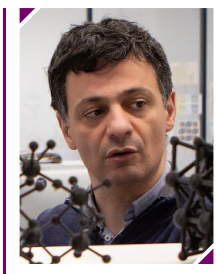
Deep-time data-driven discovery in mineralogy: Entering the age of mineral informatics



Rucheng Wang

Nanjing University

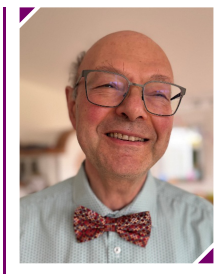
Critical metal mineralization in Bayan Obo: Beyond the rare-earth elements



Artem R. Oganov

Skolkovo Institute of Science and Technology

Predicting new compounds in planets and their atmospheres



Leonid Dubrovinsky

University of Bayreuth

When pressure changes the rules: Novel mineralogy and crystal chemistry in the deep Earth and planetary interiors

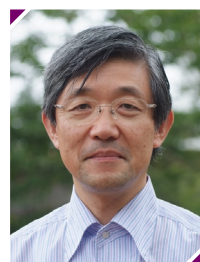
IMA Presidents



Hans-Peter Schertl

Ruhr-University Bochum

Cathodoluminescence (CL) microscopy of rock-forming minerals: New approaches to understanding petrological processes



Eiji Ohtani

Tohoku University

Role of volatiles on dynamics of the mantle and core

IMA Medalists



Tetsuo Irifune

Ehime University

Synthesis of nano-minerals under ultrahigh pressure using Kawai-type multi-anvil apparatus



Hailiang Dong

China University of Geosciences-Beijing

Mineral-microbe interactions: A major driver of elemental cycling, formation of resources, and environmental change



Bjorn Mysen

Carnegie Institution for Science

Hydrous silicate melts and silicate-saturated aqueous fluids at high temperatures and pressures: Similarities and differences

Scientific Program

Date	Time	Content	Meeting room	Location
20-Aug	09:00 – 23:00	Registration	Ground Floor Lobby	1st floor
	18:00 – 21:00	Welcome Kit Collection & Ice-Breaking Reception	Dining Platform	8th floor
21-Aug	09:00 – 09:40	Opening Ceremony		
	09:40 – 10:30	Plenary Lecture: Deep-time data-driven discovery in mineralogy: Entering the age of mineral informatics	Robert Hazen	Nanjing Hall
	10:30 – 10:50	Coffee Break	Atrium	
	10:50 – 11:40	IMA President Lecture: Cathodoluminescence (CL) microscopy of rock-forming minerals: New approaches to understanding petrological processes	Hans-Peter Schertl	Nanjing Hall
	11:40 – 12:00	Technical Progress Report: Three-Dimensional Electron Diffraction: Rewriting Mineralogy at the Nanoscale	Haiyang Xian	
	12:00 – 14:30	Lunch	So-Nice Restaurant	7th floor
			Dining Platform	8th floor
		Poster Session	Atrium	5th floor
	14:30 – 15:20	IMA Medalist Lecture: Synthesis of nano-minerals under ultrahigh pressure using Kawai-type multi-anvil apparatus	Tetsuo Irifune	Nanjing Hall
	15:20 – 15:40	Coffee Break	Atrium	5th floor
	15:40 - 18:30	Parallel Sessions	S1.4	Nanjing Hall
	15:40 - 18:25		S11.2	Room 722
	15:40 - 18:30		S5.6	Room 723
	15:40 - 18:05		S3.1	Room 730A
	15:40 - 18:30		S3.5	Room 730B
	15:40 - 18:25		S10.2/10.4/10.5	Room 733
	15:40 - 18:30		S11.3	Room 736
	15:40 - 18:30		S11.7	Room 801
	15:40 - 15:55		S7.2	Room 810
	15:40 - 17:50		S8.4	Room 811
	15:40 - 18:15		S2.1	Room 812
	15:40 - 18:45		S4.3	Room 815
	19:00 – 20:30	Buffet Dinner	So-Nice Restaurant	7th floor
			Dining Platform	8th floor

22-Aug	08:30 – 09:20	Plenary Lecture: Critical metal mineralization in Bayan Obo: Beyond the rare-earth elements	Rucheng Wang	Nanjing Hall	5th floor
	09:20 – 09:40	Coffee Break		Atrium	5th floor
	09:40 - 12:10	Parallel Sessions	S1.4	Nanjing Hall	5th floor
	09:40 - 12:00		S5.4/5.3	Room 722	7th floor
	09:40 - 11:30		S4.4	Room 723	
	09:40 - 11:35		S5.2	Room 730A	
	09:40 - 12:20		S3.2	Room 730B	
	09:40 - 12:20		S4.1	Room 733	
	09:40 - 12:15		S8.1	Room 736	
	09:40 - 12:20		S11.7	Room 801	8th floor
	09:40 - 11:50		S7.1	Room 810	
	09:40 - 12:15		S8.4	Room 811	
	09:40 - 12:25		S2.1	Room 812	
	09:40 - 12:20		S6.2	Room 815	
	12:30 – 14:30	Lunch		So-Nice Restaurant	7th floor
				Dining Platform	8th floor
		Poster Session		Atrium	5th floor
	14:30 – 15:20	IMA Medalist Lecture: Mineral-microbe interactions: A major driver of elemental cycling, formation of resources, and environmental change	Hailiang Dong	Nanjing Hall	5th floor
	15:20 – 15:40	Coffee Break		Atrium	5th floor
	15:40 - 18:20	Parallel Sessions	S1.4	Nanjing Hall	5th floor
	15:40 - 17:55		S7.3	Room 722	7th floor
	15:40 - 17:45		S5.5	Room 723	
	15:40 - 17:35		S5.2	Room 730A	
	15:40 - 18:20		S3.2	Room 730B	
	15:40 - 16:35		S4.1/10.1	Room 733	
	15:40 - 18:30		S8.1	Room 736	8th floor
	15:40 - 17:40		S7.4	Room 801	
	15:40 - 17:55		S7.1	Room 810	
	15:40 - 18:30		S1.2/1.3	Room 811	
	15:40 - 18:05		S11.1	Room 812	
	15:40 - 17:35		S6.2	Room 815	
	19:00 – 20:30	Gala Dinner		G·HOTEL Nanjing(Grand Ballroomr)	9th floor
23-Aug	08:30 – 09:20	Plenary Lecture: Predicting new compounds in planets and their atmospheres	Artem R. Oganov	Nanjing Hall	5th floor
	09:20 – 09:40	Coffee Break		Atrium	5th floor
	09:40 - 12:35	Parallel Sessions	S3.3	Nanjing Hall	5th floor
	09:40 - 11:55		S9.2	Room 722	7th floor

23-Aug	09:40 - 12:30	Parallel Sessions	S11.6	Room 723	
	09:40 - 12:15		S6.1	Room 730A	
	09:40 - 12:30		S8.3	Room 730B	
	09:40 - 12:30		S4.2	Room 733	
	09:40 - 12:15		S8.1	Room 736	
	09:40 - 12:05		S7.4	Room 801	8th floor
	09:40 - 12:05		S11.5	Room 810	
	09:40 - 12:40		S7.5	Room 811	
	09:40 - 12:05		S11.1	Room 812	
	09:40 - 11:50		S5.1	Room 815	
	12:30 – 14:30	Lunch		So-Nice Restaurant	7th floor
		Poster Session		Dining Platform	8th floor
				Atrium	5th floor
	14:30 – 15:20	IMA Medalist Lecture: Hydrous silicate melts and silicate-saturated aqueous fluids at high temperatures and pressures: Similarities and differences	Bjorn Mysen	Nanjing Hall	5th floor
	15:20 – 15:40	Coffee Break		Atrium	5th floor
	15:40 - 18:55	Parallel Sessions	S3.3	Nanjing Hall	5th floor
	15:40 - 17:35		S9.1	Room 722	7th floor
	15:40 - 18:15		S11.6/1.1	Room 723	
	15:40 - 17:25		S6.1	Room 730A	
	15:40 - 17:50		S8.3	Room 730B	
	15:40 - 18:30		S4.2	Room 733	8th floor
	15:40 - 17:30		S8.2	Room 736	
	15:40 - 17:35		S7.4	Room 801	
	15:40 - 18:05		S11.5	Room 810	
	15:40 - 18:40		S7.5	Room 811	
	15:40 - 18:45		S11.4	Room 812	
	15:40 - 18:00		S5.1	Room 815	
	19:00 – 20:30	Buffet Dinner		So-Nice Restaurant	7th floor
				Dining Platform	8th floor
24-Aug	08:30 – 09:20	Plenary Lecture: When pressure changes the rules: Novel mineralogy and crystal chemistry in the deep Earth and planetary interiors	Leonid Dubrovinsky	Nanjing Hall	5th floor
	09:20 – 09:40	Coffee Break		Atrium	
	09:40 – 10:30	IMA President Lecture: Role of volatiles on dynamics of the mantle and core	Eiji Ohtani	Nanjing Hall	
	10:30 – 11:30	Closing Ceremony			
	11:30 – 14:00	Lunch		So-Nice Restaurant	7th floor
				Dining Platform	8th floor

August 21 Session 1.4 (Nanjing Hall)

Session 1.4 Coordinators: Annamária Kis, Eiji Ohtani, Ákos Török

Time	Session	Type	Title	First Author
15:40-16:05	1.4	Keynote	Redox-active Fe(II)-pillared smectite	Joseph Stucki
16:05-16:30	1.4	Keynote	Clay minerals as natural stabilizers in the Earth system	Runliang Zhu
16:30-16:50	1.4	Oral	Natural halloysite nanotubes on functional separators for lithium-ion batteries	Xiu Yun Chuan
16:50-17:10	1.4	Oral	Multi-scale ammonium sorption in glauconite: Experimental and computational insights from globular morphology	Maxim Rudmin
17:10-17:30	1.4	Oral	Sonhari member of Laki Formation, Sindh, Pakistan: A source of iron oxides and associated clay minerals	Muhammad Hassan Agheem
17:30-17:45	1.4	Oral	Mineral-specific electron transfer and microbial community shifts: How clay minerals mediate azo dye biodegradation	Ying Zhang
17:45-18:00	1.4	Oral	Dual pathways of Fe ²⁺ uptake drive intracellular Fenton chemistry and ferroptosis-like cell death of Escherichia coli	Zijing Rong
18:00-18:15	1.4	Oral	Natural rock asphalt-derived hierarchical porous carbon for efficient removal of tetracycline	Rui Cao
18:15-18:30	1.4	Oral	Structure-activity relationship and activity regulation in clay mineral-based enzyme catalytic systems	Ke Wang

August 21 Session 11.2 (Room 722)

Session 11.2 Coordinators: Xin Liu, Jeffrey G. Catalano, Yan Li, Andrew Frierdich, Huan Liu

Time	Session	Type	Title	First Author
15:40-16:05	11.2	Keynote	From manganese mineral evolution history to atmospheric oxygen reconstruction	Yan Li
16:05-16:20	11.2	Oral	Integrated application of FIB-SEM in 3D reconstruction, microstructure analysis and multi-technique combined characterization of mineralized fossils and mineral solid solutions	Qian Chen
16:20-16:35	11.2	Oral	Manganese (hydr)oxides record the dynamic evolution of a million-year Hesperian ocean in Utopia Planitia, Mars	Zhaoyang Hu
16:35-16:50	11.2	Oral	Ambient-condition transformation from layered to tunneled manganese oxides driven by monolayer assembly	Chunjiang Li
16:50-17:05	11.2	Oral	Atomic mechanism of Au-As coupling in pyrite	Xin Liu
17:05-17:25	11.2	Invited	Competing crystallization pathways in calcium arsenates	Xiangyu Zhu
17:25-17:40	11.2	Oral	Spontaneous polarization of tourmaline subspecies and its enhancement on photocatalytic CO ₂ reduction	Jiaqi Liu
17:40-17:55	11.2	Oral	Micro- to nano-scale geochemical characteristics of pyrite and arse-nopyrite: Implications for gold mineralization at the Jiagantan gold deposit, West Qinling orogen	Yuhui Wang
17:55-18:10	11.2	Oral	Decomposition pathways of S ₆ and formation of polysulfide chromo-phores in sodalite-group minerals	Maria Fedyaeva
18:10-18:25	11.2	Oral	Redox- driven evolution of heterogeneous tunnel structures in Cryptomelane-type Mn oxides: Geoinspired implications	Huan Liu



August 21 Session 5.6 (Room 723)

Session 5.6 Coordinators: Qian Fang, Yanzhang Li, Runliang Zhu, Robert Hazen, Michael Hochella, Anhuai Lu

Time	Session	Type	Title	Authors
15:40 – 16:00	5.6	Oral	The potential role of NaCl in shaping prebiotic chemical evolution	Ruiqin Yi
16:00 – 16:20	5.6	Keynote	Light to Life: Roles of mineral photochemistry in planetary habitability	Jihua Hao
16:20 – 16:40	5.6	Keynote	The formation and evolution of hydrous minerals on the surface of Mars	Jiacheng Liu
16:40 – 17:00	5.6	Invited	A spectroscopic probe of expandable clay mineral surfaces: the application of the OD method in characterization of the Critical Zone	Artur Kuligiewicz
17:00 – 17:15	5.6	Oral	Mineral-enhanced semi-artificial photosynthesis in plants	Anhuai Lu
17:15 – 17:30	5.6	Oral	Coupling of manganese oxidative crystallization and thallium immobilization under light irradiation	Jielong Cao
17:30 – 17:45	5.6	Oral	Anoxic photo-oxidation of Mn(II)-bearing carbonates on Mars and early Earth	Jiye Guo
17:45 – 18:00	5.6	Oral	Manganese oxide facilitates prebiotic evolution on early Earth and Mars	Zening Yang
18:00 – 18:15	5.6	Oral	Sunlight-driven martian-analog metabolism: energy coupling and electron transfer between birnessite and R. radiotolerans	Feifei Liu
18:15 – 18:30	5.6	Oral	Probing closed redox systems on Earth and Moon surfaces at the nanoscale	Qian Fang

August 21 Session 3.1 (Room 730A)

Session 3.1 Coordinators: Cheng Xu, Anton R. Chakhmouradian, Jindrich Kynicky

Time	Session	Type	Title	First Author
15:40-16:05	3.1	Invited	Apatite archives REE behaviour during formation of the Mount Weld carbonatite, Western Australia	Anderson Santos
16:05-16:20	3.1	Oral	Reaction-driven magmatic crystallisation at the Maoniuping carbonatite	Yan Liu
16:20-16:35	3.1	Oral	Intensive carbonate fractionation drives giant REE accumulation: Insights from the Bayan Obo deposit	Xiaochun Li
16:35-16:50	3.1	Oral	Apatite Ca-Sr solid solutions from the Saima peralkaline complex, China: Insights into magmatic-hydrothermal controls on REE mineralization	Bin Wu
16:50-17:05	3.1	Oral	Petrological and geochemical characteristics of the Khotgor REE-rich carbonatite, South Mongolia	Meng Feng
17:05-17:20	3.1	Oral	Carbonate and sulfate: Key ligands in carbonatite-related REE mineralization	Richen Zhong
17:20-17:35	3.1	Oral	Redox-controlled magnetite ore genesis at Bayan Obo	Shubham Choudhary
17:35-17:50	3.1	Oral	Enrichment and mineralization of REEs in carbonatites	Xueyin Yuan
17:50-18:05	3.1	Oral	High-ligation complexes unlock efficient rare earth element transport in hypersaline fluids: Evidence from fluoride-bearing systems	Ye Wan

August 21 Session 3.5 (Room 730B)

Session 3.5 Coordinators: Hongfei Cheng

Time	Session	Type	Title	First Author
15:40-16:05	3.5	Invited	Mineralogy and origin of ammonium illite in coal seam partings	Zhanjie Xu
16:05-16:20	3.5	Oral	Formation mechanism of kaolinite through the mineral transformation pathway	Shangying Li
16:20-16:35	3.5	Oral	Methane hydrate formation in the kaolinite particles with different surface contacts: Insights from molecular dynamics simulation	Yun Li
16:35-16:50	3.5	Oral	Gas competitive adsorption in typical clay minerals with different structures: Implications for geological CO ₂ sequestration with enhanced gas recovery	Yang Wang
16:50-17:05	3.5	Oral	Mineralogy and genesis of pyrite with varying crystal morphologies in coal gangue of North China	Lihui Liu
17:05-17:20	3.5	Oral	Characteristics of organic aerosol and minerals from coal fire based on high-resolution mass spectrometry	Ming Liang
17:20-17:35	3.5	Oral	Characteristics of sedimentary lithium resources and the application of lithium isotopes in tracing surface weathering	Na You
17:35-17:50	3.5	Oral	Origin and diagenetic evolution of claystones in the CP2 coal seam, Adaohai Mine, Daqingshan Coalfield Evidence from mineralogy and geochemistry	Ni He
17:50-18:15	3.5	Invited	Hydrothermal enrichment of REE in Carboniferous-Permian coal-host kaolin, Datong Coalfield, North China, linked to Paleo-Asian Ocean evolution	Shuai Zhang
18:15-18:30	3.5	Oral	Who's the host of U in coal? A case study of high-uranium coals from Xinjiang, NW China	Guo Zhanming

August 21 Session 10.2 / 10.4 / 10.5 (Room 733)

Session 10.2 Coordinators: Chaowen Wang, Gaston Giuliani, Lee Groat, Wim Vertrest

Time	Session	Type	Title	First Author
15:40-15:55	10.2	Oral	Origin of gem sapphires from the Anakie gemfields, central Queensland, Australia.	Ian Graham
15:55-16:10	10.2	Oral	From mineral resources to geotourism: Designing a gemstone route in Chanthaburi, Thailand	Kannatee Fueangakorn

Session 10.4 Coordinators: Stefanos Karamelas, Andy Hsien Shen, Mingxing Yang, Zhili Qiu, Aaron Palke, Bo Xu

16:10-16:25	10.4	Oral	Interpretable machine learning for gemstone provenance determination: A comparative study of algorithms and geological analysis for peridot and jadeite	Heng Luo
16:25-16:40	10.4	Oral	Volcanic opal within a traditional sedimentary opal field: the Lightning Ridge opal field, northern NSW, Australia.	Ian Graham
16:40-16:55	10.4	Oral	Gemological characterization of pink opals from Binthalya prospect, Australia	Bowen Zhao
16:55-17:10	10.4	Oral	Raindrop microtextures and provenance signature of supergene turquoise from Delingha Mountain, Qinghai, China	Bahareh Shirdam
17:10-17:25	10.4	Oral	The effect of Cr content on the activation energy of order-disorder transition in Mg-Al spinel	Chengsi Wang
17:25-17:40	10.4	Oral	Geochemical fingerprinting of red spinel from Myanmar Vietnam and Tanzania	Sirinapa Saengdech

Session 10.5 Coordinators: Mike Rumsey, Melanie Kaliwoda

17:40-17:55	10.5	Oral	Working in a systematic mineral collection - a never ending story!	Jörgen Langhof
17:55-18:10	10.5	Oral	Investigation of siliceous materials in historical Pietra Dura: A comparative study of portable and laboratory analytical approaches	Stepan Jaromersky
18:10-18:25	10.5	Oral	Collection and curation of type specimens of newly discovered mineral species in a geological museum: A case study	Xiao-Nan Yang

August 21 Session 11.3 (Room 736)

Session 11.3 Coordinators: Jun Tsuchiya, Bijaya Karki, Zhongqing Wu, Yunguo Li, Razvan Caracas

Time	Session	Type	Title	First Author
15:40-16:05	11.3	Invited	Visualization of crystal structures having symmetries beyond 3D	Koichi Momma
16:05-16:20	11.3	Oral	Finding and fixing erroneous mineral solubilities in software: PHREEQC, SUPCRT92, HCH, and Reaktoro	Zhenhao Duan
16:20-16:35	11.3	Oral	Quantifying iron disproportionation in silicate melts using machine learning potentials	Xin Deng
16:35-17:00	11.3	Invited	Exploring planetary core formation with machine learning molecular dynamics simulations	Haiyang Luo
17:00-17:15	11.3	Oral	Electrical and thermal conductivities of (Fe,Mg)SiO ₃ melts at core-mantle boundary: Insights from machine learning potential and first-principles calculations	Yonghui Huang
17:15-17:30	11.3	Oral	Water-induced mantle overturn explains high Archean paleointensities	Dong Wang
17:30-17:45	11.3	Oral	Novel superionic states in defective silicate minerals and their roles in deep Earth and planetary interiors	Zifan Wang
17:45-18:00	11.3	Oral	Compositional signatures of (Fe,Al)OOH and their implications for the lowermost mantle	Sparsh Sharma
18:00-18:15	11.3	Oral	Al ₂ O ₃ in anorthositic slabs: A new perspective on LLSVPs and seismic velocity variations	Ishita Das
18:15-18:30	11.3	Oral	Atomic-scale insights into the frictional behavior of clay minerals from molecular dynamics simulations	Juhyeok Kim

August 21 Session 11.7 (Room 801)

Session 11.7 Coordinators: Tianhua Wang, Xiandong Liu, Razvan Caracas, Andrey Kalinichev

Time	Session	Type	Title	First Author
15:40-16:05	11.7	Invited	Elucidating zeolite nucleation by molecular simulation	Evert-Jan Meijer
16:05-16:20	11.7	Oral	Development of a general-purpose ReaxFF reactive force field for mineral systems via machine learning acceleration	Yingchun Zhang
16:20-16:35	11.7	Oral	Growth rate-dependent lithium isotope fractionation derived from machine learning-enabled molecular simulation	Qin Li
16:35-16:50	11.7	Oral	Mining-environment coupling knowledge graph and multi-scale digital platform	Liang Bian
16:50-17:05	11.7	Oral	An accurate and efficient framework for modelling multi-metal competitive adsorption on clay minerals	Pengyuan Gao
17:05-17:20	11.7	Oral	Molecular mechanisms of H ₂ gas adsorption in clays probed by classical atomistic simulations in the context of radioactive waste storage	Andrey Kalinichev
17:20-17:35	11.7	Oral	Adsorption and activation of O ₂ at Fe-bearing montmorillonite surfaces: A first-principles molecular dynamics study	Ziheng Zhang
17:35-17:50	11.7	Oral	Adsorption of molybdenum on goethite surface: A first-principles molecular dynamics simulation	Mengjia He
17:50-18:05	11.7	Oral	Molecular dynamics study on the curling mechanism of halloysite nanotubes	Xin Liu
18:05-18:30	11.7	Invited	Stress coupled vacancy diffusion in crystals: A Cauchy-Nernst-Planck continuum model	Michiel Sprik

August 21 Session 7.2 (Room 810)

Session 7.2 Coordinators: Robert M. Hazen, Sergey Krivovichev, Yan Li, Shaunna M. Morrison, Dietmar Muller, Anirudh Prabhu, Hans-Peter Schertl, Jun Tsuchiya

Time	Session	Type	Title	First Author
15:40-15:55	7.2	Oral	Controls on Cu ± Au, Mo concentrations in porphyry systems revealed by machine learning	Bin Wang
15:55–16:10	7.2	Oral	Robust multimodal mineral identification based on a parameter-efficient method	Hongxiang Liao
16:10–16:25	7.2	Oral	Element covariation reveals diverse core differentiation histories among magmatic iron meteorites	Tong Zhou
16:25 – 16:45	7.2	Invited	Scalable data science and AI for mineralogy: Our recent work with Mindat	Xiaogang Ma
16:45 – 17:00	7.2	Oral	Synthetic analysis of prebiotic chemistry on metal sulfides in hydrothermal systems	Jincheng Guo
17:00 – 17:15	7.2	Oral	Using the Apriori algorithm to predict minerals on Mars using mineral association analysis	Kate Hendrickson
17:15 – 17:30	7.2	Oral	Predicting complex mineral compositions in Gale crater, Mars based on CheMin instrument X-ray diffraction and machine learning	Shaunna Morrison
17:30 – 17:45	7.2	Oral	Detrital magnetite as a sampling medium in future Mars sample return missions: an analog study in the western Qaidam Basin	Qi-Tao Hu
17:45 – 18:05	7.2	Invited	Mineral informatics with interpretable machine learning for apatite biosignature detection	Yanzhang Li
18:05 – 18:20	7.2	Oral	P-Fe-Mn co-evolution revealed by mineral networks and its controls on global ancient oxygenation	Ziyi Zhuang

August 21 Session 8.4 (Room 811)

Session 8.4 Coordinators: Yan Yang, Jannick Ingrin, Qunke Xia, Jiacheng Liu

Time	Session	Type	Title	First Author
15:40-16:05	8.4	Keynote	Global systematics of nitrogen in diamond	Michael Jollands
16:05-16:20	8.4	Oral	Co-evolution of carbon and sulfur recorded by fluid inclusions in subduction zone: A case study of the southwestern Tianshan	Jiayang Lyu
16:20-16:35	8.4	Oral	The compositions and properties of the dehydration melting layer near the 410-km discontinuity	Hongzhan Fei
16:35-16:50	8.4	Oral	Magmatic water promotes Fe–Ti oxide mineralization in large igneous provinces	Huan Chen
16:50-17:05	8.4	Oral	Hydration at the base of the mantle transition zone by ancient subductions in Asia	Jiyu Liu
17:05-17:20	8.4	Oral	Nitrogen impacts on structural stability of feldspar: Constraints from high temperature and high pressure spectroscopy and machine learning	Weihua Huang
17:20-17:35	8.4	Oral	Recycled marine sediment and fluid in the source of the Early Cretaceous basalts in Liaoning, Eastern China: Evidence from oxygen isotopes and volatile (Cl, S, H ₂ O) contents	Qi-Hu Xu
17:35-17:50	8.4	Oral	In situ EPMA analysis of trace nitrogen in potassium feldspar and basaltic glass	YueEr Zhang

August 21 Session 2.1 (Room 812)

Session 2.1 Coordinators: Peng Yuan, Dong Liu, Jing Sun

Time	Session	Type	Title	First Author
15:40-16:00	2.1	Invited	Developing predictive power to guide the use of activated clays in low/zero carbon cements	Alastair Marsh
16:00-16:15	2.1	Oral	Thermal–mechanochemical activation mechanism of muscovite clay	Weijie Chen
16:15-16:30	2.1	Oral	A Shared Carbonation Pathway: Bridging Mineral, Bio-Based, and Circular Material Systems for Carbon Neutrality	Pooria Pasbakhsh
16:30-16:45	2.1	Oral	From dissolution to network incorporation: Mechanistic insights into the role of iron in acid-activated geopolymerization	Baifa Zhang
16:45-17:00	2.1	Oral	Effect of clay minerals on carbon dioxide hydrate formation: Insights from molecular dynamics simulation study	Yun Li
17:00-17:15	2.1	Oral	Magnesium extraction from olivine via sulphation roasting for CO ₂ sequestration: Reaction mechanism, kinetics, and process optimization	Bojun Yin
17:15-17:30	2.1	Oral	Basalt for CCUS: Mineral carbonation pathways in the subsurface and on the surface	Michelle Tiong
17:30-17:45	2.1	Oral	Amine-functionalized allophane for highly efficient CO ₂ capture: Characterization and performance evaluation	Zimeng Yu
17:45-18:10	2.1	Keynote	Carbon-neutral mineralogy: Roles of minerals and mineral-based materials toward carbon neutrality	Peng Yuan

August 21 Session 4.3 (Room 815)

Session 4.3 Coordinators: Anatoly Belonoshko, Kai Wang, Yang Sun, Konstantin Litasov

Time	Session	Type	Title	First Author
15:40-16:05	4.3	Invited	Superionicity in the deep interior of rocky planets	Zifan Wang
16:05-16:20	4.3	Oral	Thermodynamics of superionic phases in Earth's inner core	Zepeng Wu
16:20-16:35	4.3	Oral	Sound velocity measurement of iron alloys at high pressure and temperature and its application to the Earth's inner core	Eiji Ohtani
16:35-16:50	4.3	Oral	Elastic properties of iron-sulfur alloy at extreme conditions	Dennis Kosobokov
16:50-17:05	4.3	Oral	Constraints on the light-element budget in the Earth's inner core inferred from the equations of state of Fe-Si-C-H alloys	Ilya Kupenko
17:05-17:20	4.3	Oral	Combined effects of light elements on the melting temperature of Earth's inner core	Kai Wang
17:20-17:45	4.3	Invited	Seismological imaging of Earth's inner core: from surface flow to its enigmatic centre	Hrvoje Tkalčić
17:45-18:00	4.3	Oral	Impact of alloying and temperature on shear modulus of iron in the Earth inner core	Anatoly Belonoshko
18:00-18:15	4.3	Oral	Native iron assemblages in Earth's crustal rocks - mineralogical analogues of iron-rich asteroids	Oleg Vereshchagin
18:15-18:30	4.3	Oral	FeO as the dominant component of the Martian inner core	Zhongxu Pan
18:30-18:45	4.3	Oral	The electronic, magnetic, and structural properties of FeO up to core conditions	Xiang Li

August 22 Session 1.4 (Nanjing Hall)

Session 1.4 Coordinators: Joseph William Stucki, Libing Liao, Hailiang Dong, Aiqin Wang, Jianxi Zhu, Runliang Zhu, Guocheng Lv

Time	Session	Type	Title	First Author
09:40-10:05	1.4	Invited	Atomic insights into rare earth element adsorption at mineral-water interfaces	Gaofeng Wang
10:05-10:30	1.4	Invited	Selective adsorption of magnesium ions and structural reconstruction in acidified palygorskite	Yi Zhou
10:30-10:50	1.4	Oral	New data on the crystal structures, stoichiometry, and modularity of the palygorskite-sepiolite polysomatic series	Sergey Aksenov
10:50-11:10	1.4	Oral	Occurrence modes of nickel in clay minerals and their resource implications	Chaoqun Zhang
11:10-11:25	1.4	Oral	Fe ³⁺ competitive substitution of tetrahedral sites on crystal growth of saponite	Jie Yang
11:25-11:40	1.4	Oral	Site-specific reactivity of terminal and bridging hydroxyls on gamma-alumina surfaces revealed by 19F solid-state NMR	Jinhui Li
11:40-11:55	1.4	Oral	How hydration and salinity control illite wettability: Perspectives from nanomechanical force measurements	Lijuan Wang
11:55-12:10	1.4	Oral	Atomic-resolution OBF-STEM imaging	Hayato Miura
15:40-16:05	1.4	Invited	Mineral control of extracellular enzyme activity at biogeochemical interfaces	Yizhi Sheng
16:05-16:30	1.4	Invited	Oxalic acid leaching of palygorskite clay: Structural engineering-driven surface chemistry for multifunctional materials	Yushen Lu
16:30-16:50	1.4	Oral	Differential hydroxyl radical production efficiencies of Fe-bearing clay minerals under varying pO ₂ level	Qiang Zeng
16:50-17:10	1.4	Oral	Dual-clay composite electrolyte with rigid-flexible interlocked architecture for safe lithium metal batteries	Hao Liu
17:10-17:30	1.4	Oral	Harnessing the dual-charge characteristics of halloysite nanotubes for high-performance composite polymer electrolyte	Ke Wang
17:30-17:50	1.4	Oral	Research on wound hemostatic properties of mixed-dimensional attapulgite clay	Xiaomei Wang
17:50-18:05	1.4	Oral	Halloysite-reinforced nanocomposite hydrogel as multifunctional injectable wound dressing	Li Wen Wong
18:05-18:20	1.4	Oral	Aging and drying of gel precursors promote nontronite crystallization during hydrothermal synthesis	Zhongyi Liu

August 22 Session 5.4 / 5.3 / 7.3 (Room 722)

Session 5.4 Coordinators: Helen King, Oliver Plümper, Jun Kawano

Time	Session	Type	Title	First Author
09:40-10:05	5.4	Invited	Decoding quartz textures: Experimental insights into the link between fluid states and precipitation	Atsushi Okamoto
10:05-10:20	5.4	Oral	The effect of CO ₂ on hydrogen generation during peridotite serpentinization	Ruifang Huang
10:20-10:35	5.4	Oral	Atomic resolution OBF-STEM imaging of antigorite in cleavable olivine	Gen Koinuma
10:35-10:50	5.4	Oral	Molecular dynamics free energy calculations of hydration and swelling in monovalent cation intercalated birnessites	Gerica Joie P. Castro
10:50-11:05	5.4	Oral	Li-Fe interactions: a tale of the role of interfaces in the uptake of Li by Fe-oxides	Helen King
11:05-11:30	5.4	Invited	Mineral control on arsenic mobility: Anoxic arsenopyrite dissolution and scorodite crystallization	Henry Teng
11:30-11:45	5.4	Oral	Simultaneous pH and ion concentration imaging of non-stoichiometric reaction on the mineral-solution interface	Jun Kawano
11:45-12:00	5.3	Oral	Modelling in-situ mineral dust characterization for trace element load measurements and provenance analysis	Bruno Alemao Monteiro

Session 7.3 Coordinators: Peng Liu, Guowu Li, Zhenyu Chen, Guang Fan, Can Rao, Yongfei Tian, Yuan Xue, Bin Wu, Yongmei Zhang, Yumiao Meng

15:40 – 16:05	7.3	Invited	New rare-metal minerals from the Xianghualing skarn (South China)	Can Rao
16:05 – 16:20	7.3	Oral	Vesuvianite supergroup nomenclature	Taras Panikarovskii
16:20 – 16:35	7.3	Oral	Vertical and temporal evolution of long-period biotite polytypes in the Long Valley magmatic system: a non-equilibrium crystallization model	Jiaxin Xi
16:35 – 16:50	7.3	Oral	Magmatic-hydrothermal evolution and niobium enrichment mechanisms traced by multi-stage pyrochlore group minerals	Zhi-Hao Jiang
16:50 – 17:15	7.3	Invited	Metamorphic or igneous zircon? Classification through rare earth elements, machine learning, and logistic regression	Jarrod M. Burges
17:15 – 17:30	7.3	Oral	Tantaloeschynite-(Ce), a new Ta-dominant member of aeschynite-group from Ta-enriched pegmatite at Huangshan, South China	Zeying Zhu

August 22 Session 4.4 / 5.5 (Room 723)

Session 4.4 Coordinators: Yingwei Fei, Li Zhang, Laëtitia Allibert

Time	Session	Type	Title	First Author
09:40-10:05	4.4	Invited	Shock-constrained equation of state of molten iron indicates compositional gradients in the lower outer core	Youjun Zhang
10:05-10:30	4.4	Invited	Kinetic hindrance of phase transformations in dense MgSiO ₃ polymorphs under shock compression	Sota Takagi
10:30-10:45	4.4	Oral	Seifertite formation conditions in shock-compressed cristobalite	Sota Takagi
10:45-11:00	4.4	Oral	Shock effects in plagioclase from two-stage light gas gun experiments	Menghua Zhu
11:00-11:15	4.4	Oral	Spin transition and melt curve in Mg-Fe-O system studied with laser-driven shock compression	Carolina Camarda
11:15-11:30	4.4	Oral	Sound velocity and melting of davemaoite under shock compression	Ye Wu

Session 5.5 Coordinators: Shaunna M. Morrison, Anirudh Prabhu, Zakaria Jibrin

15:40 – 16:05	5.5	Invited	Mineral-microbe coevolution through geological time	Hailiang Dong
16:05 – 16:20	5.5	Oral	Dissolved silica from hydrothermal events promoted iron carbonate formation in the Archean Eon	Mingjie Wang
16:20 – 16:45	5.5	Invited	Aqueous minerals within the evolutionary system of mineralogy and the paragenetic modes of minerals	Marko Bermanec
16:45 – 17:00	5.5	Oral	Aqueous alteration experiments using synthetic GEMS analog materials: implication for aqueous alteration and precursor materials of the Ryugu parent body.	Akira Tsuchiyama
17:00 – 17:15	5.5	Oral	Quantitative constraints on the mineralogy of Earth's early Paleozoic clay mineral factory from thermodynamic-kinetic pathway modelling	Meitong Song
17:15 – 17:30	5.5	Oral	Mineral evolution as a case study of a new natural law	Robert M. Hazen
17:30 – 17:45	5.5	Oral	Crystal chemistry studies of secondary minerals and technogenic mineral phases of uranium to ensure the nuclear fuel cycle environmental safety	Vladislav Gurzhiy

August 22 Session 5.2 (Room 730A)

Session 5.2 Coordinators: Giovanni De Giudici, Jonathan Lloyd, Juan Liu, Pupa Gilbert, Juraj Majzlan, Kevin Rosso

Time	Session	Type	Title	First Author
09:40-10:05	5.2	Invited	Non-nutritive minerals as regulators of microbial gene expression and antibiotic resistance	Henry Teng
10:05-10:20	5.2	Oral	The dissociation effect of indigenous microorganisms on cobalt-bearing minerals in the Nanjian mining area, China	Meng-Yue Zhang
10:20-10:35	5.2	Oral	Role of Rhodococcus strains in microbial carbonate biomineralization under standard and metal-stressed conditions	Francesca Benedetti
10:35-10:50	5.2	Oral	Time evolution of bacterial calcium carbonate biomineralization investigated by advanced infrared spectroscopic analysis	Agnese De Carlo
10:50-11:05	5.2	Oral	Coupling of trace metals and metalloids to microbial Fe(III) reduction; impacts on Ce and Sb mobility and the production of novel nanomaterials to support the energy transition	Jinxin Xie
11:05-11:20	5.2	Oral	Performance of Fe-modified biochars and carbo-iron in remediating arsenic in groundwater	Mingyu Feng
11:20-11:35	5.2	Oral	Oxidation of As(III) by Fe(II)-rich clay minerals: Performance, mechanism and environmental geochemical implications	Hongling Bu
15:40-16:05	5.2	Invited	Tooth enamel nanostructure as a proxy to reconstruct diet changes during human evolution: the introduction of meat, agriculture, and industry	Pupa U. P. A. Gilbert
16:05-16:20	5.2	Oral	Bacterial mineralization of barite and implication for marine barite genesis	Kairui Jiao
16:20-16:35	5.2	Oral	The insight into behavior and mechanism of phosphogypsum derived hydroxyapatite embedded chitosan gel spheres for efficient solidification of uranium in wastewater	Faqin Dong
16:35-16:50	5.2	Oral	Microbial-induced precipitation of apatite-like precipitates and stable amorphous calcium phosphate by salinity-acclimatized marine cyanobacteria	Maria Dittrich
16:50-17:05	5.2	Oral	Microbial controls on hydrozincite formation in mine drainage	Salvatore Guerrieri
17:05-17:20	5.2	Oral	Why do most hyperuricemic patients never get gout? Revealing hidden controls on uric acid and guanine crystallization	Zak Jibrin
17:20-17:35	5.2	Oral	Oxalate minerals formation under the action of brown rot fungi	Alina Izatulina

August 22 Session 3.2 (Room 730B)

Session 3.2 Coordinators: Robert John Bodnar, Pei Ni, Nancy Ross

Time	Session	Type	Title	First Author
09:40-10:05	3.2	Keynote	The great oxidation event: An informatics approach to the oxygen-induced mineralogy of critical minerals	Yanzhang Li
10:05-10:20	3.2	Oral	Nanostructural characteristics of asbolane in a co-polymetallic mineralization site, Lanping–Simao Basin, China	Lichen Feng
10:20-10:35	3.2	Oral	Mineralogical and geochemical investigation of UV-fluorescent sphalerites from Mezica, Slovenia	Norbert Zajzon
10:35-10:50	3.2	Oral	Effect of clay mineral structures on Li ⁺ adsorption	Wenbin Yu
10:50-11:05	3.2	Oral	Nanoscale distribution of elements in gold using atom probe tomography	Kimberly Tait
11:05-11:20	3.2	Oral	Characterization of hydrated REE-bearing phosphates: insights into REE mineralization in a cryptic skarn regolith setting from Doradilla, NSW, Australia	Rory Carter
11:20-11:35	3.2	Oral	Chalcopyrite disease "infection" in sphalerite: Nanoscale insights into incorporation and enrichment of indium	Zhen Wang
11:35-11:50	3.2	Oral	The crystal chemistry of critical minerals	Nancy Ross
11:50-12:05	3.2	Oral	The mineralogy of the critical minerals	Robert Bodnar
12:05-12:20	3.2	Oral	Complex spodumene–petalite pegmatites from the Mount Qomolangma region, Himalayan leucogranite belt: Implications for fluid process and Li mineralization	Zhihao Xu
15:40-16:05	3.2	Keynote	Granite-related rare-metal mineralization	Rucheng Wang
16:05-16:20	3.2	Oral	Supergene Sn mineralization: potential for secondary Sn enrichment in a cryptic skarn regolith setting from Doradilla, NSW, Australia	Rory Carter
16:20-16:35	3.2	Oral	Hydrothermal beryllium mineralization in the Bamianshan ore field, northwestern Zhejiang	Mianmian Ding
16:35-16:50	3.2	Oral	Genesis of the black-shale hosting Longhua hydrothermal Ni–Co deposit, South China: whole-rock geochemistry, C–O isotope, fluid inclusion, Pb isotope and zircon (U–Th)/He dating constraints	Qi Wenxiang
16:50-17:05	3.2	Oral	Mineralogy, geochemistry, and isotopic constraints on the genesis of boron deposits in the Liao-Ji Belt, eastern Liaoning Province	Chenyang Liu
17:05-17:20	3.2	Oral	Trace element geochemistry of multi-stage quartz veins: Implications for the porphyry gold mineralization at Bilihe, North China Craton	Hang-Fei Ge

August 22 Session 3.2 (Room 730B)

17:20-17:35	3.2	Oral	Uncommon Bi–Se–Te minerals from the Tennant Creek Au–Bi–Cu deposits, Australia: Mineralogical advances and implications for ore genesis and exploration	Damian Braize
17:35-17:50	3.2	Oral	Fluid evolution and ore-forming processes in the Shapinggou Mo deposit, Central China: Insights from LA ICP–MS microanalyses of fluid inclusion and SIMS oxygen isotopes	Guoguang Wang
17:50-18:05	3.2	Oral	Fluid halite saturation directly drives Cu–Fe sulfide precipitation in porphyry deposits	Jiafeng He
18:05-18:20	3.2	Oral	Florencite precipitation under hydrothermal conditions: Mechanistic insights and mineralogical implications	Thiago Bezerra Lima

August 22 Session 4.1 / 10.1 (Room 733)

Session 4.1 Coordinators: Paola Comodi, Jun Tsuchiya, Shaunna M. Morrison

Time	Session	Type	Title	First Author
09:40-10:05	4.1	Invited	Mineral physics of super-Earth interiors	Jie Deng
10:05-10:20	4.1	Oral	Strong tidal dissipation in super-Earth triggered by the weak extraterrestrial mantle	Bowen Chen
10:20-10:35	4.1	Oral	Thermal evolution of Mars constrained by the lattice thermal conductivity of ringwoodite: Implications for inner-core formation and dynamo history	Xiaowei Zhao
10:35-10:50	4.1	Oral	Path-dependent salt incorporation in highpressure ice VII	Xi Zhu
10:50-11:05	4.1	Oral	Feldspars and relatives: Connecting chemistry, topology and stability	Liudmila Gorelova
11:05-11:20	4.1	Oral	Structural behavior of natural ludwigite under high pressure: An analog of BO ₃ coordination at depth	Xinxin Gao
11:20-11:35	4.1	Oral	Single-crystal elasticity of lawsonite at high pressure: Implications for high Poisson's ratio and VP/VS zones in subduction zones	Shuo Gao
11:35-11:50	4.1	Oral	Ab initio structural models and vibrational properties of hydrous bridgmanite under high pressure	Kikuyo Inagaki
11:50-12:05	4.1	Oral	Iron monosulfide does not incorporate hydrogen into its structure under high-pressure and high-temperature conditions	Hiroyuki Kagi
12:05-12:20	4.1	Oral	Stability of Al-bearing hydrous magnesium phases and solubility of H ₂ O in nominally anhydrous minerals and hydrous magmas under conditions of the mantle transition zone and the uppermost lower mantle	Toru Inoue
15:40-16:05	4.1	Invited	Thermal conductivity contrast between ringwoodite and bridgmanite: Implications for the long-term stability of convective regimes	Youyue Zhang
16:05-16:20	4.1	Oral	Superionic H-Si-N-O compounds and transition zones in ice giant interiors	Shidong Yu
16:20-16:35	4.1	Oral	Solidification of a proto magma ocean model and its implications for the origin of large low velocity provinces	Wenjie Wu

Session 10.1 Coordinators: Hans-Peter Schertl, Sabine Klein

16:45 – 17:10	10.1	Invited	Formation and stability mechanisms of Maya Blue: A mineralogical perspective on nanoscale confinement effects	Guanzheng Zhuang
17:10 – 17:25	10.1	Oral	Characteristics and provenance study of jade artifacts unearthed from the Guozishan Tomb M1 in Zhangshu City, Jiangxi Province, China	Ting Fang

August 22 Session 4.1 / 10.1 (Room 733)

17:25 – 17:40	10.1	Oral	Beyond the nearest source: multi-proxy provenance of turquoise at Xuewei Tomb No. 1 along the Silk Road corridor, northeastern Tibetan Plateau (Reshui, Qinghai, China)	Bahareh Shirdam
17:40 – 17:55	10.1	Oral	Past, present and uncertain future of the Australopithecus afarensis foot-prints in the melilite nephelinite Marker Tuff 7 at Laetoli World Heritage Site	Anatoly Zaitsev
17:55 – 18:10	10.1	Oral	Saline efflorescences at archaeological sites in the Serra das Confusões National Park, municipalities of Caracol and Guaribas, Piauí, Brazil	Daniel Atencio
18:10 – 18:25	10.1	Oral	A Raman study of mineral inclusions in Merovingian garnets	Frédéric Hatert

August 22 Session 8.1 (Room 736)

Session 8.1 Coordinators: Xiaozhi Yang, Charles Le Losq, Qunke Xia, Eiji Ohtani, Long Li, Jannick Ingrin, Naoko Takahashi, Jun Tsuchiya, Sylvie Demouchy

Time	Session	Type	Title	First Author
09:40-10:05	8.1	Keynote	Hydrous silicate magma and silicate-saturated aqueous fluids at high temperatures and pressures: Similarities and differences	Bjorn Mysen
10:05-10:20	8.1	Oral	Development and applications of hydrothermal diamond-anvil cell	I-Ming Chou
10:20-10:35	8.1	Oral	High-pressure density measurements on sodium aluminosilicate melts along the nepheline-albite join and recalibration of a modified hard-sphere equation of state for silicate melts	Man Xu
10:35-10:50	8.1	Oral	Atmosphere dissolution in magma oceans in exoplanets	Razvan Caracas
10:50-11:15	8.1	Invited	Stability of the trisulfur radical ion S_3^- in subduction zone fluids	Renbiao Tao
11:15-11:30	8.1	Oral	Viscosity of extremely depolymerized silicate melts	Thilo Bissbort
11:30-11:45	8.1	Oral	Extremely slow horizontal migration rate of silicate melt in the asthenosphere	Zhaowen Li
11:45-12:00	8.1	Oral	Ultramafic melt viscosity	Kelly Russel
12:00-12:15	8.1	Oral	A general machine learning model for the viscosity of aluminosilicate melts	Charles Le Losq
15:40-16:05	8.1	Keynote	New perspectives on natural diamond-forming fluids	Fabrizio Nestola
16:05-16:20	8.1	Oral	Fluid-mineral equilibria and thermodynamic mixing properties of fluid systems	Leonid Aranovich
16:20-16:35	8.1	Oral	Constraints on melt and fluid in the continental crust from electrical conductivity anisotropy	Song Luo
16:35-16:50	8.1	Oral	Composition and nature of hydrothermal fluids related to gold mineralization in the Menge gold deposit, Western Ethiopia	Mesfin Wolde
16:50-17:15	8.1	Invited	Origin of water in the deep earth interior: constraints from hydrogen isotope of large igneous provinces	Jia Liu
17:15-17:30	8.1	Oral	Water partitioning between NAM and DHMS and its implications for subducting slab dynamics	Eiji Ohtani
17:30-17:45	8.1	Oral	Ultra-low deuterium isotopes reveal long-lived primordial hydrogen in the mantle transition zone beneath East Asia	Xiang Wu
17:45-18:00	8.1	Oral	Absence of water content contrast at LAB beneath China: Study on xenoliths in Nushan maar, Anhui province	Yuto Sato
18:00-18:15	8.1	Oral	Serpentine-derived fluid metasomatism in continental subduction zones	Yi-Xiang Chen
18:15-18:30	8.1	Oral	Spatial clustering of deep earthquakes controlled by water carriers	Wen-Yuan Zhao

August 22 Session 11.7 / 7.4 (Room 801)

Session 11.7 Coordinators: Tianhua Wang, Xiandong Liu, Razvan Caracas, Andrey Kalinichev

Time	Session	Type	Title	First Author
09:40-10:05	11.7	Invited	Linking kinetic partitioning and coordination chemistry of Sr^{2+} in calcite	Kideok Kwon
10:05-10:20	11.7	Oral	Molecular mechanisms of enhanced proton conductivity: Long-range Grotthuss dynamics at IrO_2/H_2O interfaces	Feiteng Wang
10:20-10:35	11.7	Oral	Origin of premelting of ice in contact with clay minerals	Meng Chen
10:35-10:50	11.7	Oral	Photoactive elemental sulfur allotropes promote extensive ammonia synthesis in Venus-like atmosphere	Rongzhang Yin
10:50-11:05	11.7	Oral	Fate of primordial noble gases during core-mantle differentiation from ab initio simulations	Yajie Zhao
11:05-11:20	11.7	Oral	Noble gases in the deep silicate Earth reservoirs	Razvan Caracas
11:20-11:35	11.7	Oral	Constraining the equation of state of Earth's magma ocean using machine learning potentials	Yicheng Sun
11:35-11:50	11.7	Oral	Formation of calcium silicate perovskite above the core-mantle boundary during solidification of Earth's magma ocean	Tianhua Wang
11:50-12:05	11.7	Oral	Water incorporation mechanisms and effects in $MgSiO_3$ -majorite under high temperature and pressure conditions	Yancheng Lou
12:05-12:20	11.7	Oral	Thermodynamic and transport properties of $CaCO_3$ melt under mantle conditions	Yifan Lu

August 22 Session 11.7 / 7.4 (Room 801)

Session 7.4 Coordinators: Shengrong Li, Hans-Peter Schertl, Dmitriy A. Zedgenizov

15:40-15:55	7.4	Oral	Very cold subducted slab indicated by 3.65 Å phase in UHP serpentinite	Tingting Shen
15:55-16:10	7.4	Oral	Experimental constraints on chromian spinel evolution under hydrous and anhydrous conditions: Implications for mantle geochemistry	Weibin Gui
16:10-16:25	7.4	Oral	Carrier minerals, enrichment mechanisms, and prospecting significance of scandium in the Zhujiabaobao ore block, Panzhihua layered intrusion, SW China	Wenyuan Gao
16:25-16:40	7.4	Oral	Nanoscale mineralogy and formation mechanisms of Type II TCIs in the CM2 carbonaceous chondrite GRV 13051	Jiayu Wang
16:40-16:55	7.4	Oral	Fast alkali diffusion in the NAL phase as a source for high conductivity in the deep lower mantle	Shun-Feng Yan
16:55-17:10	7.4	Oral	Discrete mineralization of REEs and Nb in carbonatite-alkaline complex triggered by magmatic evolution and metasomatism	Ronglin Ma
17:10-17:25	7.4	Oral	Garnet color and garnet-clinopyroxene chemistry as exploration vectors for skarn Cu and Cu-Zn-Pb mineralization in the Jiama porphyry-skarn system, Tibet, China	Junfeng Zhao
17:25-17:40	7.4	Oral	Short-wave infrared spectral and geochemical characteristics of chlorite as exploration indicators for magmatic Cu-Ni sulfide deposit	Shuang Li

August 22 Session 7.1 (Room 810)

Session 7.1 Coordinators: Yuanfeng Cai, Navdeep Kaur Dhami, Chuanmin Zhou, Juan Liu, Hailiang Dong

Time	Session	Type	Title	First Author
09:40-10:05	7.1	Keynote	An evolutionary system of mineralogy, Parts X to XII: On the co-evolution of the geosphere and biosphere	Robert Hazen
10:05-10:20	7.1	Oral	Oxygen isotope study of UV-induced phosphite oxidation	Dongjun Kim
10:20-10:35	7.1	Oral	An alternative phosphorus sink in organic-rich sediments: insights from the predominance of authigenic gorceixite in the Ediacaran–Cambrian transitional succession	Tongxuan Du
10:35-10:50	7.1	Oral	Mineral control of biological nitrogen fixation on early Earth	Yizhi Sheng
10:50-11:05	7.1	Oral	Ultrafast electron transfer kinetics at mineral-microbe interface: Key to efficient extracellular photoelectron utilization	Yimei Du
11:05-11:20	7.1	Oral	Fossil record of Precambrian oxygenic photoautotrophs	Qing Ouyang
11:20-11:35	7.1	Oral	Banded iron formation: Texture study and implication for redox evolution during GOE	Yuanfeng Cai
11:35-11:50	7.1	Oral	Core-mantle-shell spheroidal microfossils from the Paleoproterozoic Yuanjiacun banded iron formation: Direct evidence for microbial iron oxidation	Qilin Huang
15:40-16:05	7.1	Keynote	New uses for ancient processes; engineering microbial electron transfer for clean industrial growth	Jonathan Lloyd
16:05-16:25	7.1	Keynote	Abiotic organic chemistry complexification under shock: the case of glycine	Razvan Caracas
16:25-16:40	7.1	Oral	Crustal faulting drives biological redox cycling and sustains the deep biosphere	Xiao Wu
16:40-16:55	7.1	Oral	Archean carbonates from East Pilbara: Implications for mineral-microbe coevolution	Wanli Xiang
16:55-17:10	7.1	Oral	From mineralization mechanisms to geological records: Establishing comprehensive iron mineral biosignatures	Jiahao Chen
17:10-17:25	7.1	Oral	Temporal evolution of controlling factors in sedimentary manganese mineralization revealed by machine learning	Fengping Chen
17:25-17:40	7.1	Oral	Metal utilization strategies in methanogens with divergent evolutionary origins under Mineral-controlled low-metal conditions	Qiang Zeng
17:40-17:55	7.1	Oral	Mineralogical and in-situ carbon isotopic evidence for microbial involvement in the ooid mineralization process of Xuanlong-type iron ores	Ganyu Tang



August 22 Session 8.4 / 1.2 / 1.3 (Room 811)

Session 8.4 Coordinators: Yan Yang, Jannick Ingrin, Qunke Xia, Jiacheng Liu

Time	Session	Type	Title	First Author
09:40-10:05	8.4	Invited	The role of iron- and chloride-rich hydrosaline liquids in the formation of Kiruna-type iron oxide-apatite deposits	Li-Ping Zeng
10:05-10:30	8.4	Invited	Quantitative NMR analysis of volatiles in lunar anorthites indicates similar F and P depletion in the near- and far-side mantle	Yunhua Fu
10:30-10:45	8.4	Oral	Formation of gaseous molecular water in coesite: from OH ⁻ to H ₂ O cluster	Wei Yan
10:45-11:00	8.4	Oral	Freeze-thaw cycles as a chemical weathering driver to sink volatiles on Mars	Yuan Zou
11:00-11:15	8.4	Oral	Effective retention of water in fluorine-bearing olivine	Cheng Gao
11:15-11:30	8.4	Oral	The retention of volatiles (H, F, C) in apatite during high temperature processes	Junyu Wang
11:30-11:45	8.4	Oral	Fluorine incorporation in olivine under water-saturated conditions	Yuhao Chen
11:45-12:00	8.4	Oral	Low water content of the lower continental crust induced by decompression melting: Evidence from the Weichang granulite xenoliths in the northern North China Craton	Yuanyuan Liu
12:00-12:15	8.4	Oral	Sequestration of carbon in the subducting sediments	Linzhe Du

Session 1.3 Coordinators: Tao Chen, Oliver Tschauner, Wuyi Wang, Pornsawat Wathanakul

15:40-15:55	1.2	Oral	Soils as reservoirs of hazardous fibrous zeolites: Evidence for erionite in soils at Gawler Downs, New Zealand	Satendra Kumar
15:55-16:10	1.3	Oral	Mineralogical study of Kenyan ruby by FIB-TKD characterization: Implications for genesis and crystal orientation of exsolved rutile inclusions	Jinglin Tian
16:10-16:35	1.3	Invited	Colour zoning in melt-grown blue sapphire	Waratchanok Suwanmanee
16:35-17:00	1.3	Invited	Gem science challenges: Oxidation states of colour causing elements in yellow, green sapphires and kyanite	Natthapong Monarumit
17:00-17:15	1.3	Oral	Effect of fluorescence on the color perception of Bangkok yellow sapphire samples	Wiwat Wongkokua
17:15-17:30	1.3	Oral	The behavior of the 3161 cm ⁻¹ infrared band at low temperature heat treatment in corundum	Wasura Soonthorntantikul
17:30-17:45	1.3	Oral	Irradiation and color stability test on corundum in Thailand	Thanapong Lhuaamporn

August 22 Session 8.4 / 1.2 / 1.3 (Room 811)

17:45-18:00	1.3	Oral	Color and spectral characteristic behavior of 24 color-change Nanosital glass-ceramics used as gem materials	Raksit Tantipisit
18:00-18:15	1.3	Oral	Carbonate and phosphate matrix reference materials developed for LA-ICP-MS analysis	Chenzi Fan
18:15-18:30	1.3	Oral	Oriented spectroscopic characteristics of cordierite	Yimiao Liu



August 22 Session 2.1 / 11.1 (Room 812)

Session 2.1 Coordinators: Peng Yuan, Dong Liu, Jing Sun

Time	Session	Type	Title	First Author
09:40-10:05	2.1	Invited	Divergent strategies for accessing particulate iron in diatoms under pervasive oceanic iron limitation	Jing Sun
10:05-10:25	2.1	Oral	Enhanced Rock Weathering as a Dual Solution to the Climate and Phosphorus Crises	Daniel S Goll
10:25-10:40	2.1	Oral	Climate-driven shifts in the carbon sequestration efficiency of reactive iron minerals in the Arctic Shelf	Jiazong Du
10:40-11:05	2.1	Invited	Probing organic matter-mineral interactions with amino acids: A molecular perspective with a view towards megascale carbon sequestration	Thomas Blattmann
11:05-11:20	2.1	Oral	Mineral-dependent carbonate and greenhouse-gas fingerprints of enhanced weathering in flooded rice paddies	Zhaofeng Ouyang
11:20-11:40	2.1	Oral	Minerals contribute to the enhancement of the ocean carbon pump	Dong Liu
11:40-11:55	2.1	Oral	Coupled mechanisms of aragonite precipitation and carbon fixation driven by olivine–benthic diatom synergy	Rongda Yu
11:55-12:10	2.1	Oral	Biogenic magnetite as a key link in iron fertilization driven carbon sequestration during the PETM	Xiaodong Jiang
12:10-12:25	2.1	Oral	Montmorillonite-olivine combination for synergistic enhancement of marine diatom-driven carbon sequestration	Fucheng Yao

Session 11.1 Coordinators: Frédéric BRE Hatert, Ferdinando Bosi

15:40-16:05	11.1	Keynote	The pyroxene nomenclature and classification: a review.	Fernando Cámara
16:05-16:20	11.1	Oral	The yttrotungstite group revisited	Frédéric Hatert
16:20-16:35	11.1	Oral	Proposal for the establishment and classification of the Wumuite supergroup	Yuan Xue
16:35-16:50	11.1	Oral	Strandite, $\text{Pb}_3\text{Mn}^{3+}_4\text{Mn}^{4+}_3\text{O}_{15}$, a new hexagonal mineral from Långban, Sweden	Andreas Karlsson
16:50-17:05	11.1	Oral	Hydrocalumite puzzle	Elena Zhitova
17:05-17:20	11.1	Oral	2D and 3D zeolites containing tetrahedral layers with the apophyllite-type topology: polymorphism, polytypism, and systematics	Sergey Aksenov
17:20-17:35	11.1	Oral	Tornebohmite-(Ce): crystal structure refinement, phase transition, and thermal expansion	Margarita Avdontceva
17:35-17:50	11.1	Oral	Supergene new minerals and mineral assemblages in the oxidation zone of the Dongchuan Cu–Pb–Zn polymetallic deposit, Yunnan, China, and their environmental implications	Ningyue Sun
17:50-18:05	11.1	Oral	Schreibersite from the Wedel IAB complex iron meteorite	Natalia Doubrovinckaia

August 22 Session 6.2 (Room 815)

Session 6.2 Coordinators: Hans-Peter Schertl, Jingsui Yang, Junfeng Zhang, Chunjing Wei, Chun-Ming Wu

Time	Session	Type	Title	First Author
09:40-10:05	6.2	Invited	From evidence of deep subduction to decoding collisional dynamics: New perspectives on UHP metamorphism	Tatsuki Tsujimori
10:05-10:20	6.2	Oral	The largest cold ancient subduction orogenic belt in the world	Huining Wang
10:20-10:35	6.2	Oral	Initiation of partial melting in nominally-anhydrous eclogite facies mafic rocks during exhumation	Zhuocheng Wang
10:35-10:50	6.2	Oral	Microstructural investigations on the preservation mechanisms of intergranular coesite in UHP eclogite from Yangkou Bay, Sulu region	Jinyu Zheng
10:50-11:05	6.2	Oral	Melt-fluid-deformation evolution of the Sulu UHP eclogites and implications for exhumation dynamics	Lu Wang
11:05-11:20	6.2	Oral	Error analysis of the garnet-clinopyroxene-coesite/quartz oxybarometers	Chun-Ming Wu
11:20-11:35	6.2	Oral	Comparison of the geothermobarometers applied to special natural eclogite and blueschist	Hui Zhang
11:35-11:50	6.2	Oral	Metamorphic evolution of ultra-high pressure garnet clinopyroxenite in the Sanweishan area, Dunhuang Orogenic Belt	Xue-Li Jia
11:50-12:05	6.2	Oral	Experimental simulations of serpentinization and metamorphism under subduction zone deformation	Jin Liu
12:05-12:20	6.2	Oral	The fate of C-O-H fluids in oceanic subduction zone	Lijuan Zhang
15:40-16:05	6.2	Invited	Ultrahigh-temperature metamorphism of granulized eclogites in the east-central Himalayan orogenic belt, China	Lifei Zhang
16:05-16:20	6.2	Oral	UHT metamorphism in the Jining complex, North China Craton	Bin Wang
16:20-16:35	6.2	Oral	Mineralogy control on geochemistry of (U)HP/(U)HT anatexis: knowns and unknowns	Aleksandr Stepanov
16:35-16:50	6.2	Oral	Discovery of UHT metapelitic granulite in the Grove Mountains, inland East Antarctica, and its geological significance	Laixi Tong
16:50-17:05	6.2	Oral	Zircon diffusion chronometry reveals brief ultrahigh-temperature metamorphism in a prolonged Paleoproterozoic orogen	Yi Zou
17:05-17:20	6.2	Oral	Epidote group minerals participate in the deep-Earth water and rare earth element cycles	He Chao
17:20-17:35	6.2	Oral	Identification of Neoarchean UHT metamorphism from intermediate and greywackic granulites in the Yinshan Block, North China Craton	Chunjing Wei

August 23 Session 3.3 (Nanjing Hall)

Session 3.3 Coordinators: Jakub Ciazela, Malte Junge, Kunfeng Qiu

Time	Session	Type	Title	First Author
09:40-10:00	3.3	Invited	Platinum-group minerals and their properties - experimental study	Anna Vymazalová
10:00-10:20	3.3	Keynote	Crystal defects drive gold remobilisation in sulphides	Denis Fougereuse
10:20-10:35	3.3	Oral	Chalcophile and highly siderophile elements in ore-forming systems - New insights into geodynamic processes and accumulation of mineral deposits from the UNESCO World Heritage Harz and its ore mines	Sabine Dietrich
10:35-10:50	3.3	Oral	Investigation of primary volatile content and evolution of chalcophile element of boninitic melt inclusions in high crystallinity picrite, Troodos Ophiolite	Ri Cao
10:50-11:05	3.3	Oral	Deciphering the relative timing of alteration and Cu mineralization at the Dexing porphyry Cu–Au–Mo deposit (South China) using the temporal variations of Cu isotope composition of chalcopyrite	Jiafeng He
11:05-11:20	3.3	Oral	Tomingley Gold Project pyrites: Pathfinder textures and trace elements	Muhammad Fariz Bin Md Nasir
11:20-11:35	3.3	Oral	Gold enrichment in pyrite: The role of impurity coupling	Zi-Yue Gao
11:35-11:50	3.3	Oral	Mineralogical and isotope-geochemical features of sulfides in native gold from the Guli massif (Polar Siberia) and their genetic significance	Kreshimir N. Malich
11:50-12:05	3.3	Oral	Micro- to nano-scale insights into gold enrichment in high-grade quartz veins of the Longtougou gold deposit, South Qinling orogen	Ya-Fei Wu
12:05-12:20	3.3	Oral	Hyperspectral characterization of white mica in orogenic gold systems: Implications for ore genesis and exploration targeting	Hongjie Tan
12:20-12:35	3.3	Oral	Spectroscopic insights into oxide-silicate coupling in polymetallic nodules: silicate-induced restructuring of vernadite and phillipsite nucleation	Weishi Zhang
15:40-16:00	3.3	Keynote	Deciphering the 'purge of impurities' effect: Tin speciation evolution and selective dissolution during hydrothermal cassiterite recrystallization	Yiqu Xiong
16:00-16:20	3.3	Keynote	Contrasting sphalerite geochemistry in orogenic and intracontinental hydrothermal systems: Insights from the Haopinggou and Fankou deposits, China	Dexian Zhang
16:20-16:35	3.3	Oral	Elevated pH in ore-forming fluids facilitated indium enrichment in sphalerite	Zhengbing Zhou

August 23 Session 3.3 (Nanjing Hall)

16:35-16:50	3.3	Oral	Mineralogic and geochemistic study of sphalerite from the Dalingkou Pb-Zn-Ag deposit, Zhejiang, China	Ying Xu
16:50-17:05	3.3	Oral	Magmatic–hydrothermal evolution at the barren Wushan pluton, Southeast China: Insight into controls on mineralization potential	Zhe Chi
17:05-17:20	3.3	Oral	In situ observations of amorphous PGE oxide in platinum mineralisation from the Kondyor Ural-Alaskan ultramafic intrusion, Russia: Evidence for extremely rapid oxidation	Irina A Zhukova
17:20-17:35	3.3	Oral	Mineral formation mechanisms and paleoenvironmental implications of iron formations during the Snowball Earth	Jun Hu
17:35-17:50	3.3	Oral	Unlocking India's critical minerals: PXRD-EDXRF revolution from craton depths to indigenous CRMs	Sunder Raju
17:50-18:05	3.3	Oral	Water-induced Archean mantle overturn as a mechanism for Earth's first lead paradox	Yudong Chen
18:05-18:20	3.3	Oral	Multi-scale mineralogical constraints on arc-related Fe-Ti-(P) mineralization: a case study of the Devonian Dawusunangou layered mafic-ultramafic intrusion, North China Craton	Sijia Yao
18:20-18:35	3.3	Oral	Mineralogical evidence for Co–Se redistribution in cobalt mineralization sites of the Lanping–Simao basin: Constraints from pyrite oxidation and trogtalite formation	Yuxiang An
18:35-18:55	3.3	Invited	Uranium enrichment in granitic pegmatites of the Husab deposit, Namibia: Constraints from thermodynamic modeling and Li-Ba-Sr isotopes	Shan-Shan Li

August 23 Session 9.2 / 9.1 (Room 722)

Session 9.2 Coordinators: Ryo Fukushima, Yongsheng Huang, Jesse B. Walters, Tatsuki Tsujimori

Time	Session	Type	Title	First Author
09:40-10:05	9.2	Invited	Fluid-rock interaction and deep carbon cycling in the forearc mantle: insights from numerical models	Ryosuke Oyanagi
10:05-10:20	9.2	Oral	Petrology and thermodynamic modelling reveal an important source of abiotic H ₂ and CH ₄ driven by slab rehydration	Zengli Guo
10:20-10:35	9.2	Oral	Experimental constraints on carbon sequestration in the mantle wedge	Guoji Wu
10:35-11:00	9.2	Keynote	Fluid-fluxed mélange melting to form arc magma constrained by multiple stable isotope systematics	Yi-Xiang Chen
11:00-11:25	9.2	Invited	Experimental constraints on trace element partitioning between mobile phases and carbonated metasediments during slab devolatilization	Marija Putak Juricek
11:25-11:40	9.2	Oral	Oscillatory zoning in low-temperature eclogitic garnet revisited: Fingerprints of open- and closed-system reactions	Ryo Fukushima
11:40-11:55	9.2	Oral	Coupled dissolution and dehydration reactions of talc in subduction-zone fluids: Implications for slab-mantle wedge decoupling depth	Nanfei Cheng

Session 9.1 Coordinators: Tatsuki Tsujimori, Yi-Xiang Chen

15:40-15:55	9.1	Oral	Jadeitites as archives of subduction-zone fluids and beyond: Progress and perspectives since IMA 2010	Tatsuki Tsujimori
15:55-16:10	9.1	Oral	Sources and evolution of subduction-zone fluids at forearc depth: Multi-isotope constraints from Dominican jadeitites and related rocks	Kun Chen
16:10-16:30	9.1	Invited	HP-metamorphic rocks in serpentinite-hosted mélanges of the Dominican Republic and the role of jade	Hans-Peter Schertl
16:30-16:50	9.1	Invited	Large-scale metamorphic fluid flow in a continental subduction channel recorded by coesite-bearing jadeite quartzites	Xiao-Ying Gao
16:50-17:05	9.1	Oral	Subduction zone fluid-rock interaction revealed by Fe-O isotopes in UHP jadeite quartzite from the Dora Maira Massif, Western Alps	Jia-Wei Xiong
17:05-17:20	9.1	Oral	Isochemical metamorphism genesis of the newly discovered Baqing jadeitoid and blueschist, eastern-central Tibet, China	Xin Jin
17:20-17:35	9.1	Oral	Insights from fluid inclusion studies of jadeitite on fluid migration in subduction zones	Jiabao Wen

August 23 Session 11.6 / 1.1 (Room 723)

Session 11.6 Coordinators: Elena S. Zhitova

Time	Session	Type	Title	First Author
09:40-10:05	11.6	Invited	Sulfate mineralogy of the Tolbachik volcano fumaroles: Bridging geosciences and materials science	Oleg Siidra
10:05-10:20	11.6	Oral	Structural and chemical diversity of the averievite family, (MX)Cu ₅ O ₂ (TO ₄) ₂ (M = K, Rb, Cs; X = Cl, Br, I; T = P, As, V)	Ilya Korniyakov
10:20-10:35	11.6	Oral	Exhalation minerals from solfataras of the pyroclastic flow in 2023 of the Shiveluch volcano (Kamchatka, Russia)	Anastasia Kupchenko
10:35-10:50	11.6	Oral	Fumarole sublimates of Krashenninnikov volcano (Kamchatka, Russia)	Elena Zhitova
10:50-11:05	11.6	Oral	Characteristics of clay soils from Central Semiachik's North Crater (Kamchatka)	Ruslan Kuznetsov
11:05-11:20	11.6	Oral	Modular structures of bubnovaite K ₂ Na ₈ Ca(SO ₄) ₆ , dobrovol'skiyite Na ₄ Ca(SO ₄) ₆ and A ₂ SO ₄ series (A = Na, K, Rb, Cs): inheritance of mineral structure from high temperature disordered modifications	Andrey Shablinskii
11:20-11:35	11.6	Oral	A historical Cu-sulfate fumarolic assemblage from the 1872 eruption of Vesuvius collected by Arcangelo Scacchi	Ningyue Sun
11:35-12:00	11.6	Invited	Silicate-sulfide melt immiscibility and noble-metal behavior in mantle-derived magmas: Key discoveries from natural observations	Vadim Kamenetsky
12:00-12:15	11.6	Oral	Nature of olivine macrocrysts in Hawaiian picrites	Eiichi Takahashi
12:15-12:30	11.6	Oral	Rock-forming minerals as indicators of processes in magmatic systems: The case of Krenitsyn Peak volcano (Onkotan Island, Kuril Islands, Russia)	Vesta Davydova
15:40-15:55	11.6	Oral	The evolution of an active volcanic system: Insights from textures of basaltic scoria and isotopic signatures of fumarolic minerals of the Tolbachik volcano	Astrid Holzheid
15:55-16:10	11.6	Oral	Genesis of gem sapphire from the Pliocene alkali basalts of the Western Carpathians	Stefan Farsang
16:10-16:25	11.6	Oral	Ag-rich minerals and gold from the Northwest and Aegean zones of the intermediate sulfidation epithermal Bowdens Ag-(Pb-Zn-Au) prospect, Lue, NSW, Australia	Rory Carter

August 23 Session 11.6 / 1.1 (Room 723)

Session 1.1 Coordinators: Annamária Kis, Eiji Ohtani, Ákos Török

16:35-17:00	1.1	Keynote	Synergistic thermal-mechanical activation of polymineralic clays for the sustainable stabilization of dredged sediments	Gianluca Girardi
17:00-17:15	1.1	Oral	Mineralogical evolution and sustainability of low-carbon 3D printed mortar incorporating hemihydrate phosphogypsum	Yuting Sun
17:15-17:30	1.1	Oral	Effect of KH550-functionalized nano-active magnesium oxide on the properties and hydration mechanism of gypsum-based self-leveling mortar	Meirong Zong
17:30-17:45	1.1	Oral	Thermoelectric properties of iron-bearing minerals in typical sinter and pellets: Formation mechanism and industrial applications	Bowen Duan
17:45-18:00	1.1	Oral	Mineralogy of weathering forms of a stone column exposed in a polluted urban environment, an example from Budapest	Ákos Török
18:00-18:15	1.1	Oral	Seasonal variability of salt mineral assemblages in porous limestone masonry	Annamária Kis

August 23 Session 6.1 (Room 730A)

Session 6.1 Coordinators: Fengke Cao, Runlian Pang, Roberta L. Flemming, Wei Du, Aicheng Zhang

Time	Session	Type	Title	First Author
09:40-10:05	6.1	Invited	Nanoscale study of naturally shock-induced high-pressure polymorphs of oxide minerals in two meteorites	Xiande Xie
10:05-10:20	6.1	Oral	Wadsleyite rims around ringwoodite cores in shock melt veins of L5 chondrite Northwest Africa 7458	Feng Yin
10:20-10:35	6.1	Oral	High-pressure olivine polymorphs in highly shocked ordinary chondrites and their element diffusion kinetics	Xiaorui Wang
10:35-10:50	6.1	Oral	Shock metamorphism in Jonnagiri micrometeorite, India	Perumala Venkata Sunder Raju
10:50-11:15	6.1	Invited	Nanomineralogy of shocked meteorites and impactites: Discovery of new high-pressure minerals	Chi Ma
11:15-11:30	6.1	Oral	High-pressure phases of silica in Chang'e lunar soil samples	Wei Du
11:30-11:45	6.1	Oral	Formation of shock melt vein through multiple shearing: Records in lunar meteorite Northwest Africa 14526	Tian-Ran Du
11:45-12:00	6.1	Oral	Shock metamorphism in pyroxene from lunar soils: Insights into evolution of lunar crustal materials	Jiawei Zhao
12:00-12:15	6.1	Oral	First finding of calcium potassium pyrophosphate $\text{CaK}_2\text{P}_2\text{O}_7$ in lunar return sample	Runlian Pang
15:40-15:55	6.1	Invited	Impact-induced pressure and temperature effects on the remanent magnetization of Martian meteorites	Ting Cao
15:55-16:10	6.1	Oral	In situ quantification and calibration of shock-related strain in minerals by micro X-ray diffraction	Roberta L. Flemming
16:10-16:25	6.1	Oral	Exogenous origin of metallic nanoparticles on carbonaceous asteroids: evidence from hypervelocity impact experiments	Qi Sun
16:25-16:40	6.1	Oral	Quantifying shock-induced amorphization in plagioclase-rich rocks using micro-XRD	Fengke Cao
16:40-16:55	6.1	Oral	Does shock cause iron oxidation in Martian pyroxenes? Insights from synchrotron Mössbauer spectroscopy	Satheesh Saji
16:55-17:10	6.1	Invited	Experimental simulation of shock metamorphism	Falko Langenhorst
17:10-17:25	6.1	Oral	Shock effects on iron-rich olivine and pyroxene	Kairui Tai

August 23 Session 8.3 (Room 730B)

Session 8.3 Coordinators: Yunguo Li, Fabrice Gaillard, Carmen Sanchez-Valle, Li Zhang, Huaiwei Ni

Time	Session	Type	Title	First Author
09:40-10:05	8.3	Keynote	Unique properties of supercritical geofluids	Huaiwei Ni
10:05-10:30	8.3	Invited	Exotic chemistry in volatile-bearing silicate melts along the shock and at extreme planetary conditions	Razvan Caracas
10:30-10:45	8.3	Oral	Molecular simulation of the structures and transport properties of supercritical geofluids	Yicheng Sun
10:45-11:00	8.3	Oral	Structures and transport properties of supercritical peridotite-H ₂ O system	Yifan Lu
11:00-11:15	8.3	Oral	Raman spectroscopic investigation of sulfur speciation in aqueous fluids with multiple solutes	Kang Liu
11:15-11:30	8.3	Oral	Mantle cations define the fate of oxidized sulfur in deep fluids	Xi Zhu
11:30-11:45	8.3	Oral	Revisiting silicate melt structure via dynamic bonding analysis: Distinguishing stable species from transition states	Junhai Xu
11:45-12:00	8.3	Oral	First-principles constraints on fractionation of rare earth elements in metamorphic garnet	Meng Chen
12:00-12:15	8.3	Oral	Disorder-driven synthesis of C ₂ * abiotic hydrocarbons via direct carbon-hydrogen reactions under upper mantle conditions	Shaojie Wang
12:15-12:30	8.3	Oral	Abnormal phase relations in Fe-light element ternary melts and implications for planetary magnetic fields	Feng Zhu
15:40-16:05	8.3	Invited	Metastable CO ₂ -CO fluids in the deep oceanic lithosphere challenge models of carbon transport and fixation at mantle depth	Maria Luce Frezzotti
16:05-16:20	8.3	Oral	Pervasive hydrous carbonatitic liquids mediate transfer of carbon from the slab to the subarc mantle	Wei Chen
16:20-16:35	8.3	Oral	Upper mantle low-velocity layer tied to volatile-charged carbonate melts	Yongsheng Huang
16:35-16:50	8.3	Oral	Global sub-arc mantle oxidation in the mid-Proterozoic	J. ZhangZhou
16:50-17:05	8.3	Oral	Constraints on lithology and fluorine-chlorine volatilization characteristics of mantle source in Laiwu, Shandong province in Eastern China	Qi Yu
17:05-17:20	8.3	Oral	Genesis of the Nougoua gold deposit in the Aboisso, Côte d'Ivoire: Constraints from geochronology, fluid inclusion, and H-O-S isotopes	Peng Hu
17:20-17:35	8.3	Oral	Expanding the geochronological toolbox of the epidote supergroup	Marko Bermanec
17:35-17:50	8.3	Oral	Underworld modeling of granitic crystal mush systems	Xinhang Lin

August 23 Session 4.2 (Room 733)

Session 4.2 Coordinators: Xiang Wu, Leonid Dubrovinsky, Taku Tsuchiya, Bin Chen, Qingyang Hu

Time	Session	Type	Title	First Author
09:40-10:05	4.2	Keynote	The stability of a newly discovered CaSiC ₂ O ₇ silicate-carbonate reacting with Earth's lower mantle minerals	Taku Tsuchiya
10:05-10:30	4.2	Invited	Experimental constraints on the thermal structures in Earth's deep mantle: global and regional	Wen-Pin Hsieh
10:30-10:45	4.2	Oral	Thermal transport properties in ferropericlase across the lower mantle	Zena Younes
10:45-11:00	4.2	Oral	The effect of grain size and distribution on the acoustic velocities of polycrystalline MgSiO ₃ bridgmanite	Cheng Qian
11:00-11:15	4.2	Oral	Deformation of bridgmanite under the lower mantle conditions	Longli Guan
11:15-11:30	4.2	Oral	Dominance of high-spin Fe ²⁺ in bridgmanite and post-perovskite under hydrous lowermost mantle conditions	Ziqiang Yang
11:30-11:45	4.2	Oral	Superionic transition and its effects in Earth's deep lower mantle	Yu He
11:45-12:00	4.2	Oral	The elasticity of new hydrous MgSiO ₄ H ₂ phases at deep Earth conditions	Jiajun Jiang
12:00-12:15	4.2	Oral	High-pressure synthesis and crystal structures of novel iron-based oxides-hydroxides in the deep lower mantle	Hongsheng Yuan
12:15-12:30	4.2	Oral	Thermal equation of state of the spinelloid phase and its implications for deep-focus earthquakes	Fei Qin
15:40-16:05	4.2	Keynote	Nanometric mineral inclusions in fluid-rich diamonds	Fabrizio Nestola
16:05-16:20	4.2	Oral	Fluorine-bearing melt inclusions in diamonds of the Siberian Craton	Vladislav Shatsky
16:20-16:35	4.2	Oral	Microdiamonds in tholeiitic dolerites from the North China Craton	Wang Yun
16:35-16:50	4.2	Oral	Elastic pressure constraint on an eclogitic diamond from Mengyin kimberlite: evidence for deep slab subduction in the eastern NCC	Yongkang Ding
16:50-17:05	4.2	Oral	Majoritic garnets from the Maping kimberlite, South China: Implications for deep mantle processes and diamond exploration	Yuhua Zhu
17:05-17:20	4.2	Oral	Zoisite-bearing eclogites from kimberlite pipe Zagadochnaya (Siberian craton)	Denis Mikhailenko
17:20-17:35	4.2	Oral	Morphology, spectroscopy and inclusion characteristics of diamonds from Southern Liaoning kimberlite deposit: Implications for their formation environment	Dongsheng Li
17:35-17:50	4.2	Oral	Deep phosphorus recycling requires exceptionally cold subduction	Qiwei Zhang
17:50-18:05	4.2	Oral	Investigating the redox state of the lithospheric mantle: Insights from Fe isotopes and Fe ³⁺ /Fe _{tot} of magnesiochromite inclusions in diamonds	Davide Novella
18:05-18:30	4.2	Invited	Phengite-mediated F and Cl fluxes from subduction zones to the deep mantle	Yingzhuo Liu

August 23 Session 8.1 / 8.2 (Room 736)

Session 8.1 Coordinators: Xiaozhi Yang, Charles Le Losq, Qunke Xia, Eiji Ohtani, Long Li, Jannick Ingrin, Naoko Takahashi, Jun Tsuchiya, Sylvie Demouchy

Time	Session	Type	Title	First Author
09:40-10:05	8.1	Invited	Composition of zoned olivines from meimechites of the Kontozero com-plex (Kola Peninsula): evidence for extremely magnesian mantle melts	Anna Dymshits
10:05-10:20	8.1	Oral	Constraining mantle redox conditions using ferric iron in clinopy-roxene xenoliths: A machine learning approach	Chenyang Ye
10:20-10:35	8.1	Oral	Super-hydrous arc magmas delay magnetite saturation and sulfide pre-cipitation	Lanqin Li
10:35-10:50	8.1	Oral	Variation in petrological and microstructural characteristics of the Horoman peridotite complex	Kazuki Matsuyama
10:50-11:15	8.1	Invited	The formation mechanism of the low-velocity layer above the 410-km discontinuity	Longjian Xie
11:15-11:30	8.1	Oral	Experimental study of apatite as a proxy of volatile and metal budgets in carbonatite melts	Haihao Guo
11:30-11:45	8.1	Oral	Formation and isotopic evolution of Earth's earliest oceans	Yu Zhang
11:45-12:00	8.1	Oral	Water-induced mantle overturns and Great Oxidation Event	Zhongqing Wu
12:00-12:15	8.1	Oral	Superheated core-driven dynamo delays: A constraint on Moon-forming models?	You Zhou

Session 8.2 Coordinators: Luiz Pereira, Daniel R. Neuville

15:40-16:05	8.2	Invited	Characteristics and properties of geraisite, a new tektite strewn field unveiled in Brazil	Alvaro Crósta
16:05-16:30	8.2	Invited	Deformation of silicate glass under hot compression and nanoindentation?	Linfeng Ding
16:30-16:45	8.2	Oral	Viscosity and structure of iron aluminosilicate melt	Sohei Sukenaga
16:45-17:00	8.2	Oral	Relationship between titanium coordination and ionic conductivity in sodium silicate glasses	Oscar Bonnet
17:15-17:30	8.2	Oral	Mechanical behaviour of obsidian resources of pre-Hispanic civilizations of central Mesoamerica	Luiz Pereira

August 23 Session 7.4 (Room 801)

Session 7.4 Coordinators: Shengrong Li, Hans-Peter Schertl, Dmitriy A. Zedgenizov

Time	Session	Type	Title	First Author
09:40-10:05	7.4	Invited	Recycled volatiles and post-subduction porphyry ore systems	Bo Xu
10:05-10:20	7.4	Oral	Decoding rare-metal pegmatite petrogenesis: insights from mineral geochemistry	Xin Chen
10:20-10:35	7.4	Oral	Complexation characteristics of La ³⁺ in F-bearing alkaline hydrothermal fluids and mineralogical implications	Qi Cao
10:35-10:50	7.4	Oral	Cobalt occurrence and enrichment mechanism in skarn iron deposits of the North China Craton	Xian Liang
10:50-11:05	7.4	Oral	Formation of reaction rinds by episodic hydration-metasomatism of an oceanic eclogite block and implications for subduction interface processes	Dadi Cao
11:05-11:20	7.4	Oral	Efficient gold scavenging by mineral replacement reactions: An experimental study of hematite sulfidation in IOCG systems	Ruping Gan
11:20-11:35	7.4	Oral	Mineralogical characteristics and genesis study of banded iron for-mations in the Hamersley Basin, Western Australia	Siyi Huang
11:35-11:50	7.4	Oral	Isotopic application in high saline conditions	Minghui Li
11:50-12:05	7.4	Oral	Pyrite as a multi-proxy recorder of hydrothermal evolution: Insights into Cu-Au decoupling in porphyry-epithermal system, Mangla deposit, Tibet	Yan Nie
15:40-16:05	7.4	Invited	AI-based extraction of detrital indicator mineral information and its application for mineral exploration	Haiming Liu
16:05-16:20	7.4	Oral	La speciation in F-rich alkaline hydrothermal fluids and its role in rare-earth mineral formation	Qi Cao
16:20-16:35	7.4	Oral	The two-stage mantle enrichment process in southern Tibet — implications from in-situ compositions and Rb-Sr isotopes of phlogopite	Yumin Ai
16:35-16:50	7.4	Oral	Deciphering ore formation flius evolution processes of the Qinglonggou gold deposit, northern margin of Qaidam basin, Qinghai Province,China	Min Chen
16:50-17:05	7.4	Oral	From crustal thickening to post-collisional extension: Reassessing zircon age peaks using trace elements and textural domains	Di Pang
17:05-17:20	7.4	Oral	From orbicules to veinlets: Tourmaline records B-rich fluid evolution during the magmatic-hydrothermal transition in an intermediate-felsic intrusive system	Wenlu Wang
17:20-17:35	7.4	Oral	Genesis of copper-deficient skarn iron deposits in the North China Craton: Insights from apatite and whole-rock geochemistry	Junwu Zhang

August 23 Session 11.5 (Room 810)

Session 11.5 Coordinators: Huifang Xu, Seungyeol Lee, Xiaoliang Liang

Time	Session	Type	Title	First Author
09:40-09:55	11.5	Oral	Magnetite texture and chemistry: Present and future	Xiaowen Huang
09:55-10:20	11.5	Invited	Luogufengite (ϵ -Fe ₂ O ₃): A nano-mineral with giant coercive field and its implications for natural remanent magnetization	Seungyeol Lee
10:20-10:35	11.5	Oral	From molecular coordination to landscape evolution: Zinc isotope fractionation mediated by Fe-(oxyhydr)oxides during silicate weathering	Ting Gao
10:35-10:50	11.5	Oral	Stepwise supergene oxidation of primary auriferous pyrite leads to the formation of bonanza gold ores	Fengxia Huang
10:50-11:05	11.5	Oral	Mineralogical evolution of Fe (hydr)oxides and its control on cerium speciation and anomaly formation in mature regolith	Mei Lu
11:05-11:20	11.5	Oral	Molecular mechanisms of phosphate-induced middle-REE enrichment during REE adsorption on goethite	Xiaoju Lin
11:20-11:35	11.5	Oral	Evolution characteristics of iron (hydr)oxides in regolith as effective indicator for REE mineralization	Lianying Luo
11:35-11:50	11.5	Oral	Battle between the bands: competitive precipitations of ferrihydrite and silica gel lead to the bands in banded iron formations	Huifang Xu
11:50-12:05	11.5	Oral	A 4 x 4 x 4 unit-cell superstructure for uranium-bearing hematite with long-range ordering of metal vacancy	Jie Yao
15:40-15:55	11.5	Oral	Heavy metal isotope fractionation during adsorption and incorporation onto iron (hydr)oxides	Hui Yin
15:55-16:10	11.5	Oral	Facet-dependent heterogeneous Fenton reaction mechanisms on hematite nanoparticles for (photo)catalytic degradation of organic dyes	Ping Chen
16:10-16:35	11.5	Invited	Ferrihydrite phase transformation across Earth-surface thermal regimes	Juan Liu
16:35-16:50	11.5	Oral	Removal performance of iron-loaded clay mineral composites for heavy metal ions	Limei Wu
16:50-17:05	11.5	Oral	Mechanisms of hexavalent chromium reduction in Fe(II)-bearing clay mineral and Fe (hydr)oxide binary systems: Competitive adsorption versus mediated electron transfer	Peng Zhang
17:05-17:20	11.5	Oral	Enhanced immobilization of Cd and Cr during carbonate-accelerated transformation of ferrihydrite-metal coprecipitates	Ying Li
17:20-17:35	11.5	Oral	Glacier retreat unveils a hidden abiotic source of nitrous oxide on the Tibetan Plateau	Lei Zhong
17:35-17:50	11.5	Oral	Magnetofossil assemblages as recorders of paleoenvironment conditions: Evidence from the Eocene-Oligocene equatorial Pacific	Yang Lu
17:50-18:05	11.5	Oral	Size-driven structural complexity in manganese oxides	Ke Wen

August 23 Session 7.5 (Room 811)

Session 7.5 Coordinators: Jian-Feng Gao, Rui Wang, Xin-Fu Zhao, De-Gao Zhai, Jing-Jing Zhu

Time	Session	Type	Title	First Author
09:40 – 10:00	7.5	Invited	Calcite as a stage-spanning archive of critical metal enrichment in carbonatite-associated deposits: Insights from mineral chemistry and in situ isotope compositions	Wei Chen
10:00 – 10:20	7.5	Invited	Occurrence and enrichment mechanism of invisible Au in Carlin-type Au deposits	Zhuojun Xie
10:20 – 10:40	7.5	Invited	Multi-stage REE mineralization in the Bayan Obo Fe-REE-Nb deposit: Constraints from geochronology and mineral geochemistry	Pei Liang
10:40 – 10:55	7.5	Oral	Episodic magmatism contributes to sub-seafloor copper mineralization: Insights from textures and geochemistry of zoned pyrite in the Ashele VMS deposit	Bing Xiao
10:55 – 11:10	7.5	Oral	Study on Fe-Cu decoupling in Zhuchong skarn Fe-(Cu) deposit -insights from chalcopyrite in-situ sulfur and copper isotope analysis	Wang Fangyue
11:10 – 11:25	7.5	Oral	Zircon fingerprints the critical magmatic-hydrothermal transition for critical enrichment in the Baerzhe peralkaline granite	Huimin Su
11:25 – 11:40	7.5	Oral	Origin of Mo-rich scheelite in the Ruanjiawan oxidized skarn tungsten system	Shitao Zhang
11:40 – 11:55	7.5	Oral	In-situ iron isotope analysis of magnetite implications for the genesis of iron-oxide apatite deposits	Wang Liao
11:55 – 12:10	7.5	Oral	Transformation of magnetite to hematite driven by evaporite-derived sulfate reduction: Evidence from EBSD and tourmaline geochemistry in the Longqiao iron skarn deposit, eastern China	Yi-Zhe Fan
12:10 – 12:25	7.5	Oral	Quantitative mineral-geochemical constraints on orogenic gold formation: Quartz–pyrite insights from the Nianzha deposit, Yarlung–Tsangpo suture zone	Song Xiangfa
12:25 – 12:40	7.5	Oral	Revisiting metal sources in the Southern Tibet antimony metallogenic belt	Jinchao Wu
15:40 – 16:00	7.5	Invited	Zircon and apatite compositions: Insights into magmatic fertility of the Qimantage belt, East Kunlun orogen	Jing-Jing Zhu
16:00 – 16:20	7.5	Invited	Apatite constraints on volatile evolution in orogenic Ni-Cu systems	Yajing Mao
16:20 – 16:40	7.5	Invited	Stibnite geochemistry as a tracer for fingerprinting fluid flow and ore exploration	Degao Zhai
16:40 – 16:55	7.5	Oral	Quartz trace elements as indicators of fluid evolution and mineralization in low- to medium-temperature hydrothermal systems	Shen Gao
16:55 – 17:10	7.5	Oral	Tracing volatile source and evolution in collisional porphyry deposits using apatite S and Cl isotopes	Qiushi Zhou

August 23 Session 7.5 (Room 811)

17:10 – 17:25	7.5	Oral	Zircons reveal the history of fluctuations in oxidation state of crustal magmatism and supercontinent cycle	Rui Wang
17:25 – 17:40	7.5	Oral	Quartz textures and trace element geochemistry as tracers of fluid evolution in orogenic gold systems	Parfait Mupenge
17:40 – 17:55	7.5	Oral	In situ sulfide geochemistry reveals Te-Bi-Au mineralization in the Dashuigou deposit, SW China	Qingqing Zhao
17:55 – 18:10	7.5	Oral	Unraveling the crucial role of pulsed meteoric water influx in orogenic gold formation: Constraints from in-situ quartz geochemistry	Shuling Song
18:10 – 18:25	7.5	Oral	Magma source and evolution control porphyry metal endowment: Evidence from UST quartz	Jingxin Hong
18:25 – 18:40	7.5	Oral	Sphalerite trace elements as proxies for ore-forming fluid evolution in the Wuxu Sb–Pb–Zn ore district, South China	Hao Xu

August 23 Session 11.1 / 11.4 (Room 812)

Session 11.1 Coordinators: Frédéric BRE Hatert, Ferdinando Bosi

Time	Session	Type	Title	First Author
09:40-10:05	11.1	Invited	Rare earth minerals: chemical and coordination diversity, complexity, new results	Sergey Krivovichev
10:05-10:20	11.1	Oral	The role of transition metals in heat-induced color change in Cu-bearing tourmalines from Mavuco, Mozambique	Riccardo Luppi
10:20-10:35	11.1	Oral	Crystal chemistry of axinite-(Mn)–tinzenite series minerals from the Val Graveglia Manganese District (Italy), and relations with axinite-group minerals	Giovanni Andreozzi
10:35-10:50	11.1	Oral	Thermal and vacuum-induced evolution of hydrated iron sulfate minerals	Oleg Siidra
10:50-11:05	11.1	Oral	Thallium minerals at the nanoscale: speciation, partitioning and stabilization in secondary arsenates and oxides	Tamara Đorđević
11:05-11:20	11.1	Oral	Probing site occupancy in mineral structures via 3DED	Haiyang Xian
11:20-11:35	11.1	Oral	Atomic-resolution OBF-STEM imaging of layered and multiple-chain silicates in crocidolite asbestos	Ichiro Ohnishi
11:35-11:50	11.1	Oral	Octahedral cation substitution mechanisms of montmorillonite	Bao Cheng Guo
11:50-12:05	11.1	Oral	A new formula for terlinguacreekite	Marcus Origlieri

August 23 Session 11.1 / 11.4 (Room 812)

Session 11.4 Coordinators: He Zhang, Fang Xia, Denis Fougerouse, Gujie Qian, Tobias Bamforth, Joël Brugger, Yuanfeng Cai

15:40-16:00	11.4	Keynote	Fluid-rock interaction mechanisms control the dynamics of the lithosphere	Andrew Putnis
16:00-16:20	11.4	Oral	To rust or not to rust: Mineral-driven iron redox dynamics and crustal redox heterogeneity	Joël Brugger
16:20-16:35	11.4	Oral	Reaction-induced porosity during fluid-mineral interaction: Combining 4D synchrotron imaging with AI-based permeability reconstruction	Oliver Plümper
16:35-16:50	11.4	Oral	Vacancies in sulfides facilitate fluid-induced solid-state diffusion	Zheng-Jie Qiu
16:50-17:05	11.4	Oral	Interconnected Cu–Fe sulfide networks in chimneys and thermoelectric conversion at deep-seafloor hydrothermal vents	Kentaro Toda
17:05-17:20	11.4	Oral	Link between gold mineralization and fluid evolution in epithermal systems: A case study of the Dongyang gold deposit, China	He Zhang
17:20-17:40	11.4	Keynote	Microbial mineral interactions during hydroxyapatite and calcium carbonate precipitation: Mineralogical perspective from nano to molecular scales	Pelina Toprak
17:40-18:00	11.4	Invited	Application of stable isotopes as “structure-sensitive probes” for mineral-fluid interfacial reactions	Wei Li
18:00-18:15	11.4	Oral	In situ experimental constraints on the differential hydrothermal behavior of yttrium and scandium in hyper-alkaline carbonate fluids	Ze Yuan
18:15-18:30	11.4	Oral	Myrmekite and antiperthite formation in deformed granite: Chemical and crystallographic constraints on formation mechanisms	Yueting Song
18:30-18:45	11.4	Oral	A dual-endmember numerical framework constrained by mineral phase transformation: Reproducing mineral-fluid interactions and element transport in a hydrothermal experimental system	Jingbo Xu

August 23 Session 5.1 (Room 815)

Session 5.1 Coordinators: Juan Liu, Keisuke Fukushi, Yi Yang, Xin Zhang, Michael F. Hochella

Time	Session	Type	Title	First Author
09:40-10:05	5.1	Invited	Iron mineral-organic matter interactions drive the biogeochemical cycles of heavy metals and carbon in soils	Xinde Cao
10:05-10:20	5.1	Oral	Regulation of Fe(II) supply rates and extracellular polymeric substances on ferrihydrite biotransformation	Anxu Sheng
10:20-10:35	5.1	Oral	Light-induced coupling process of Fe redox cycling and natural dissolved organic matters oxidative decomposition at goethite surface	Shanshan Yang
10:35-10:50	5.1	Oral	Warming enhances iron-mediated protection of soil organic carbon in boreal Sphagnum peatlands	Yunpeng Zhao
10:50-11:05	5.1	Oral	From dynamic margins to the Great Oxidation Event: Nanoscale iron-organic carbon coupling and its biogeochemical implications	Heng Xiao
11:05-11:20	5.1	Oral	Fire-induced redistribution and isotopic fractionation of soil organic carbon among density fractions	Jinsuo Li
11:20-11:35	5.1	Oral	Structure and reactivity of intermediate Fe(III) species in Fe(II)-catalyzed ferrihydrite transformation	Yuefei Ding
11:35-11:50	5.1	Oral	Deciphering and emission assessment of key toxic components in fine particles from typical industrial sectors in China	Zuoshun Niu
15:40-16:05	5.1	Invited	Metastable minerals as key controls on water chemistry evolution and carbonate precipitation in alkaline lakes	Daehyeon An
16:05-16:30	5.1	Invited	Roles of natural catalysts in promoting precipitation of sedimentary dolomite: from molecules to mountain building	Huifang Xu
16:30-16:45	5.1	Oral	Impact of selected biomolecules on CaCO ₃ crystallization kinetics	Zhaoyi Dai
16:45-17:00	5.1	Oral	Mineralogical characterization of fine-grained matrices in Ryugu and carbonaceous chondrites using Mg K-edge XANES spectroscopy	Reon Okumura
17:00-17:15	5.1	Oral	Surface chemical and structural properties influence biofilm formation on calcite	Yarong Qi
17:15-17:30	5.1	Oral	Nanoscale control of disordered dolomite formation: The role of microbial biomass and polysaccharides in stabilizing amorphous precursors	Ting Chen
17:30-17:45	5.1	Oral	Lanthanide-dependent metabolism and metallophore-mediated uptake in a novel methylotrophic strain	Changqing Liu
17:45-18:00	5.1	Oral	Differential preservation of organic biosignature in Mars-analog clays and evaporites	Tongtong Huang

Poster Session(Batch: Batch 1)

Exhibition Period: August 21 until 12:30 PM on August 22, 2026

Poster No.	Session	Title	Authors
PN-1-01	1.3	The Kimberley Process and the global governance of natural rough diamond trade: Institutional power, market access, and the interest structure of non-resource node states	Weizhang Liang, Zhili Qiu
PN-1-02	1.3	Origins of color in brown and blue mammoth ivory	Tao Chen, Zhaoying Huang, Binyan Kang
PN-1-03	1.3	Defect engineering in gem crystals from color centers to optical and quantum materials	Wingtak Lui, Yu-Chen Huang, Rui-Rui Xing
PN-1-04	1.3	Application of artificial intelligence in colored diamond image color grading	Li-Nong Wang, Ching-Hsiang Huang, Wingtak Lui, Yu-Chen Huang, Rui-Rui Xing, Yu-Hsiang Chien
PN-1-05	1.4	The study of products of thermocatalytic degradation of polyolefins over clays by Nuclear Magnetic Resonance spectroscopy	Sergei Golovin, Lyubov Furda, Olga Lebedeva, Dmitry Smalchenko, Igor Tarasov, Ekaterina Migulina, Evgeniy Seliverstov, Evgeniya Tarasenko, Olga Kokoshkina
PN-1-06	1.4	Catalytic pyrolysis of polyethylene and polypropylene into liquid fuel-like products over clay minerals	Lyubov Furda, Dmitry Smalchenko, Sergei Golovin, Igor Tarasov, Ekaterina Migulina, Evgeniy Seliverstov, Evgeniya Tarasenko, Olga Kokoshkina, Olga Lebedeva
PN-1-07	1.4	Atomistic study of aqueous solution in the inhomogeneous clay-quartz system	Artem Glushak, Evgeny Tararushkin, Grigory Smirnov
PN-1-08	10.1	A cross-cultural study on malachite from Tang Dynasty Changsha kiln glazes and Ancient Egyptian faience	Shangjia Wen, Xinxin Gao, Yimiao Liu, Ren Lu
PN-1-09	10.1	A review on the exploitation and utilization of nephrite (calcic amphibolite) resources in prehistoric Europe	Tongmei Bao, Jiong Yang
PN-1-10	10.4	Local procurement or long-distance exchange? A new tecton-ic-geochemical provenance framework for prehistoric jade artifacts based on Li-Be-δCe	Yuefeng Zhang, Zhili Qiu
PN-1-11	10.4	Non-destructive testing and traceability of pearls based on microwave resonance and X-ray micro-computed tomography	Yuan Sun, Hongcai Chen, Zhonghua Song, Jianxia Ye, Zelong Chen

PN-1-12	10.4	The Kimberley Process and the global governance of natural rough diamond trade: Institutional power, market access, and the interest structure of non-resource node states	Weizhang Liang, Zhili Qiu
PN-1-13	10.5	Non-destructive testing of jade artifacts from the Dawenkou-Longshan culture in the collection of Shandong Museum and a discussion on their provenance	Jiong Yang, Ena Zhou, Zhili Qiu, Yuefeng Zhang, Dongzhou Bai, Qirui Sun
PN-1-14	11.1	Långbanite revisited	Dan Holtstam, Fernando Cámara
PN-1-15	11.1	Structural origin of thermal expansion in RbSO_4 and $\text{Rb}_2\text{Ca}_3(\text{SO}_4)_3$	Sofya Demina, Andrey Shablinskii, Rimma Bubnova, Maria Krzhizhanovskaya, Stanislav Filatov
PN-1-16	11.1	Stillwellite-(La): a new mineral from the Gejiu intrusion, Yunnan, China	Kai Qu, Guochen Dong, Guang Fan, Xiangping Gu, Junping Ren, Alei Gu, Hang Zhang, Yanjuan Wang
PN-1-17	11.1	Thermal expansion of the novel borate-phosphate $\text{Y}_7\text{O}_6(\text{BO}_3)(\text{PO}_4)_2$	Sofya Demina, Andrey Shablinskii, Rimma Bubnova, Maria Krzhizhanovskaya, Stanislav Filatov
PN-1-18	11.1	Recent advances in transition metal-containing borates with tunable properties	Yaroslav Biryukov, Almaz Zinnatullin, Andrey Shablinskii, Margarita Avdontceva, Yulia Gokhfeld, Maria Krzhizhanovskaya, Natalia Kazak, Rimma Bubnova, Farit Vagizov, Stanislav Filatov
PN-1-19	11.1	Crystal chemistry of kyrgyzstanite, $\text{ZnAl}_4(\text{OH})_{12}(\text{SO}_4) \cdot 3\text{H}_2\text{O}$	Elena Zhitova, Rezeda Sheveleva, Andrey Zolotarev, Anastasia Kupchenko, Vladimir Bocharov, Vladimir Karpenko, Igor Pekov
PN-1-20	11.1	Low-dose atomic-resolution imaging of vaterite using OBF-STEM	Taiga Okumura, Hayato Miura, Toshihiro Kogure
PN-1-21	11.1	Retention-active oxide matrices as dynamic sinks for arsenic and antimony in legacy mine tailings	Katharina Vacek, Tamara Đorđević
PN-1-22	11.1	Shojiite: a new amphibole supergroup mineral from Hokkaido, Japan	Maki Hamada, Mariko Nagashima, Terumi Ejima, Tomoyuki Mizukami, Noriko Hasebe, Koichi Momma, Akihiro Tamura, Akihiro Ishii, Kiwamu Okamoto, Tomoaki Morishita



PN-1-23	11.1	Changesite-(Ce): A new REE mineral from lunar	Yanjuan Wang, Fabrizio Nestola, Kai Qu, Arianna Lanza, Jiayang Cong, Xiaochao Che, Zhenyu Chen, Guang Fan, Xiangping Gu, Ze Liu, Cheng Yue, Tao Long, Shuping Yin, Anna Barbaro, Simone Molinari, Ziyao Wang, Zhehao Huang, Zengqian Hou
PN-1-24	11.1	Insight into the crystal chemistry of pumpellyite-group minerals: jul-goldite from Kourahanga and pumpellyite from Sugashima	Mariko Nagashima, Daisuke Nishio-Hamane
PN-1-25	11.2	Formation mechanism of micron-scale chalcopryrite and pyrrhotite blebs in sphalerite from the Xianglushan tungsten deposit, Jiangxi Province	Jing Zhou, Feng Zhu, Chang Xu, Jungang Pang
PN-1-26	11.3	Active-learning deep potential molecular dynamics of phosphorus oxyanion reactions under high-temperature and high-pressure conditions	Chenyang Zhao, Zhongqing Wu, Bowen Chen, Wenzhong Wang
PN-1-27	11.3	First-principles path integral molecular dynamics (PIMD) calculations of the elasticity of D ₂ O ice VII under pressure	Jun Tsuchiya, Takuya Iwata
PN-1-28	11.4	Contrasting lithium siting mechanisms in clay minerals: Evidence from Central Yunnan, Central Guizhou, and Northern Guizhou	Yan Song, Zhang He, Jingbo Xu, Yuli Yuan, Siyi Huang, Ruping Gan, Tao Sun, Jinhai Yu, Jinhai Zhu, Yuanfeng Cai
PN-1-29	11.4	Silver: The magic 'bullet' for chalcopryrite dissolution	Barbara Etschmann, Luis Verdugo, Maryam Olamide Abdus-Salam, Joel Brugger
PN-1-30	11.5	A 4 x 4 x 4 unit-cell superstructure for uranium-bearing hematite with long-range ordering of metal vacancy	Jie Yao, Cristiana Ciobanu, Nigel Cook, Kathy Ehrig, Ashley Slattery, Eugene Ilton, Nobuyoshi Miyajima, Gerd Steinle-Neumann
PN-1-31	11.5	Mineralogical and geochemical characteristics of iron meteorite: Baselin data for metal-rich asteroid exploration	Heejeong Jeon, Seungyeol Lee
PN-1-32	11.6	The Yadovitaya fumarole (Tolbachik volcano): from mineralogy and geochemistry toward driving factors of mineral diversity	Artem Borisov, Oleg Siidra, Natalia Vlasenko, Astrid Holzheid, Natalia Platonova
PN-1-33	11.6	A historical Cu-sulfate fumarolic assemblage from the 1872 eruption of Vesuvius collected by Arcangelo Scacchi	Ningyue Sun, Manuela Rossi, Fabrizio Nestola
PN-1-34	11.7	The structure and transport properties of diopside supercritical fluid from machine learning potential	Dong Wang, Zhongqing Wu

PN-1-35	2.1	Mechanistic insights into Mg carbonates formation pathways	Yechan Chang, Kideok D. Kwon
PN-1-36	2.1	A study of the mineral-enhanced biological pump (MeBP) in ocean systems based on mesocosm land-based simulations	Yuguo Shen, Dong Liu, Rongda Yu, Xu Wang, Peng Yuan, Nianzhi Jiao
PN-1-37	2.1	The role of montmorillonite in iron supply to diatoms and its potential application	Xu Wang, Dong Liu, Hao Liu, Rongda Yu, Mengyuan Li, Yuguo Shen, Guangcheng Huo
PN-1-38	3.1	Mineral chemistry and petrogenetic implications of monazite-(Ce) and allanite-(Ce) in the Uyaynah carbonatites, United Arab Emirates	Mabrouk Sami, Hamed Gamaleldien, Xiao Han, Bahaa M. Amin, Xun Zhao, Douaa Fathy
PN-1-39	3.2	Mineralogical constrains for the process of Cs enrichment in the LCT pegmatite system from the Gyirong pluton, Himalaya	Ennong Tian, Lei Xie, Rucheng Wang
PN-1-40	3.2	Resolving "scandian ixiolite": Ixiolite-(Sc), a new columbite-supergroup member from the Heftetjern pegmatite (Norway)	Dan Holtstam, Alice Taddei, Roy Kristiansen, Luca Bindi
PN-1-41	3.2	Gold solubility in chalcopryrite predicted by atomic simulations	Jie Yao, Cristiana Ciobanu, Nigel Cook, Kathy Ehrig
PN-1-42	3.2	Hydrothermal origin and sedimentary accumulation: early-stage ore forming process of the Urkut and Epleny manganese ore deposits (Hungary)	Máté Zs. Leskó, Boglárka A. Topa, Ferenc Móricz, Ferenc Kristály, Délia H. Bulátkó-Debus, Richárd Z. Papp, Tamás G. Weiszbürg, József Pálffy, Tamás Vigh, Livia Leskóné Majoros, Norbert Zajzon
PN-1-43	3.2	Mineralogical investigation of the Ni - Co bearing minerals of the Felscsatar talc shist (Hungary)	Máté Zs. Leskó, Boglárka A. Topa, Délia H. Bulatko-Debus, Livia Leskóné Majoros, László E. Aradi, Sándor Szakál
PN-1-44	3.2	Investigation of the indium bearing sphalerite from Nagyborzsöny, Hungary	Máté Zs. Leskó, Boglárka A. Topa, Róbert Arató, Viktor Bertrandsson Erlandsson, Phillip Gopon, Délia H. Bulátkó-Debus, Norbert Zajzon
PN-1-45	3.2	Graphite and associated critical elements from black phyllites from Hungary	Livia Leskóné Majoros, Boglárka A. Topa, Máté Zs. Leskó, Ferenc Móricz, Délia H. Bulátkó-Debus, Sándor Szakál, Ferenc Kristály
PN-1-46	3.2	Graphite from the Kropfmuehl deposit, Germany: reviewing advantages and disadvantages for lithium intercalation applications	Christoforos Zamparas, Elisabeth Eiche, Jochen Kolb



PN-1-47	3.2	Gold content analysis in gold ores: 20 years of progress, challenges and future directions	Ruifeng Gao
PN-1-48	3.3	Multi-scale mineralogical constraints on arc-related Fe-Ti(P) mineralization: a case study of the Devonian Dawusunangou layered mafic-ultramafic intrusion, North China Craton	Sijia Yao, Shanshan Li, Kristoffer Szilas, Kunfeng Qiu
PN-1-49	3.3	Equilibrium Fe–S isotope fractionation among pyrite precursor minerals: Insights from density functional theory	Yin-Chuan Li, Zhi-Jie Liu, Hao-Long Li
PN-1-50	3.3	The discovery of Grimmerite (NiCo ₂ S ₄) in China and its geological significance	Jinlu Yang, Jiayi Zhou
PN-1-51	3.3	Geodynamic limits on future porphyry copper formation	Jakub Ciazela, Taras Gerya, Christian Verard, Robert Stern, Matthew Leybourne, Wenyong Duan
PN-1-52	3.3	The geochemistry of the diabase from the Wuliping Pb-Zn deposit, Northwestern Guizhou	Ziyong Wang
PN-1-53	3.3	Experimental study of synthetic kotulskite (PdTe): bismuth and antimony solubility	Jan Kamenský, Anna Vymazalová, František Laufek, Marek Tuhý
PN-1-54	3.3	Trace metal mineralization in marine ooidal ironstones: Mineralogical evidences for cryptic hydrothermal fluid activity	Maxim Rudmin
PN-1-55	3.4	Experimental determination of rare earth elements partitioning between titanite and granitic melts	Fangfang Huang, Jintuan Wang, Xiaolin Xiong, Mingdi Gao, Li Li, Chunxia Wei
PN-1-56	3.4	Characteristics of Nb-Ta enrichment in different types of Himalayan leucogranitic system	Kexin Xu, Lei Xie, Rucheng Wang, Huan Hu
PN-1-57	3.4	Huangshanite: a new Fe ³⁺ –Ta-dominated wolframite-group mineral	Xinhao Duan, Lei Xie, Rucheng Wang, Xiangping Gu
PN-1-58	3.4	Unraveling magmatic to hydrothermal scandium enrichment in the Bayan Obo carbonatite-hosted deposit, North China	Yating Xu, Rucheng Wang, Xudong Che
PN-1-59	3.4	Characterizing the evolution of beryllium mineral sequences in granite-related mineralizing system	Yutao Lin, Rucheng Wang, Xudong Che, Jianjun Lu, Huan Hu
PN-1-60	3.4	New perspective on critical raw materials potential in Central Europe: Insights from the Czech Geological Survey	Michal Poňavič, Martin Kubeš, Anna Vymazalova, Martin Štrba
PN-1-61	3.4	Typomorphism of eudialyte-group minerals: From structural chemistry to mineral processing of rare-earth elements	Sergey Aksenov, Julia Mikhailova, Alfiya Safiulina, Nikita Chukanov, Ramiza Rastsvetaeva, Alexey Lizunov, Galina Kalashnikova, Igor Luybach, Evgeniy Rodionov, Ivan Tananaev

PN-1-62	3.5	Characteristics of organic aerosol and minerals from coal fire based on high-resolution mass spectrometry	Ming Liang, Yuzhuo Liu
PN-1-63	3.5	Methane hydrate formation in the kaolinite particles with different surface contacts: Insights from molecular dynamics simulation	Yun Li
PN-1-64	3.5	Characteristics of sedimentary lithium resources and the application of lithium isotopes in tracing surface weathering	Na You, Hongfei Cheng
PN-1-65	3.5	Origin and diagenetic evolution of claystones in the CP2 coal seam, Adaohai Mine, Daqingshan Coalfield Evidence from mineralogy and geochemistry	Ni He, Hongfei Cheng
PN-1-66	3.5	Formation mechanism of kaolinite through the mineral transformation pathway	Shangying Li
PN-1-67	4.1	Martian mantle composition and structure constrained by InSight and first-principles mineral physics	Zhongqing Wu, Wenzhong Wang
PN-1-68	4.1	Quartz microstructures and deformation conditions in the Jinzhou–Wanfu metamorphic core complex	Dongling Jiang, Junfeng Zhang, Zhenhua Xue
PN-1-69	4.1	The origin and formation environment of diamond spherulites inferred from primary inclusions	Hiroaki Ohfuji, Kouga Kanai
PN-1-70	4.1	Mineral physics of a new perovskitoid structure for photovoltaic applications	Paola Comodi, Emanuele Priola, Marco Milanese, Mattia Lopresti, Luca Palin, Elisa Boccalon, Eliano Diana
PN-1-71	4.1	Plagioclase megacrysts as recorders of recharge-driven magma chamber dynamics in the 1.83 Ga Wulong gabbro dykes	Jianfeng Ma, Hamed Gamaleldien, Wen-Hong Qiu, Ross Mitchell, Tai-Ping Zhao
PN-1-72	4.2	Accessory minerals of eclogites and grosspyrites from the Zagado-chnaya kimberlite pipe	Nikolai Gubanov
PN-1-73	4.2	Pressure-dependent potassium incorporation in davemaoite	Jingjing Niu, Renbiao Tao, Qingyang Hu, Guoliang Niu, Jintao Zhu
PN-1-74	4.2	Internally consistent P-V-T equations of state among Pt, Au, and MgO	Xi Zhu, Yu Ye, Wei Sun, Tomoo Katsura, Razvan Caracas
PN-1-75	4.2	The incorporation and effects of chromium in the garnet lattice: Insights into oxygen isotope equilibrium fractionation	Jiling Zhou, Yu Ye, Erqiao Liu
PN-1-76	4.2	Fluid inclusions in coated diamonds: Insights into episodic diamond growth	Fernando Cámara, Maxwell C. Day, Fabrizio Nestola, D. Graham Pearson
PN-1-77	4.4	Sound velocity and melting of davemaoite under shock compression	Ye Wu, Xun Liu, Haijun Huang, Yingwei Fei

Poster Session(Batch: Batch 2)

Exhibition Period: 12:30 PM on August 22 until August 23, 2026

Poster No.	Session	Title	Authors
PN-2-01	5.2	Metabolomics-based analysis of the interaction effects and stress response mechanisms in the co-culture system of fungi and microalgae under cadmium stress	Junjun Wang
PN-2-02	5.2	Bioremediation: learning from bio-geo processes in extreme environments	Patrizia Onnis, Carmen Falagan, Violeta Ramos, Daniela Medas, Giovanni B. De Giudici
PN-2-03	5.2	Raman spectroscopy of calcium oxalate dihydrate (COD) and trihydrate (COT)	Nicole Horáková, Jan Cempírek
PN-2-04	5.2	Using computational simulations to identify the origin of vibrational signals from bioapatite	Helen King
PN-2-05	5.2	XANES as a tool for resolving phosphorus speciation in environmental biomineralization systems	Cristian Ambu, Giovanni De Giudici, Carlo Meneghini, Patrizia Onnis, Daniela Medas, Giovanni Birarda, Carla Buosi, Lulu Al Lluhaibi, Alexey Maximenko
PN-2-06	5.3	Characterization of the black dust from the 2026 March-April dustfall events in the Tatra Mountains (Poland)	Artur Kuligiewicz, Agnieszka Rajwa-Kuligiewicz, Anna Bojarczuk, Łukasz Jelonkiewicz, Andrzej Adamski, Beata Kultys, Paweł Miśkowiec, Bartłomiej Zubek
PN-2-07	5.4	Formation process of calcium carbonate in anionic chemical hydrogel with counter-diffusion method	Yanli Wang, Shinji Matsumoto, Jun Kawano, Takaya Nagai, Ayako Shinozaki, Takayuki Kurokawa
PN-2-08	5.4	Explorations of mineral surface area quantification using water-based BET: Insights from a systematic study of clay minerals	Xinru Hui, Nir Galili, Toshihiro Yoshimura, Michael Plötze, Thomas Blattmann
PN-2-09	5.5	Mineral composition of modern bottom sediments salt lakes of the North and West of the Crimean Peninsula	Anna Mikhailovna Bessonova, Marina Valentinovna Charykova, Elena Pavlovna Kayukova
PN-2-10	5.5	Assembling a unified mineralogical map of the Moon through remote sensing, sample analysis, and the examination of paragenetic modes	Lindsay Podjasek, Shaunna Morrison, Jolyon Ralph, Barbara Lafuente
PN-2-11	5.5	Quantitative constraints on the mineralogy of Earth's early Paleozoic clay mineral factory from thermodynamic-kinetic pathway modelling	Meitong Song, Yuyan Zhao, Xiaodan Tang, Simon Redfern

PN-2-12	5.6	Synthesis and purification of phase-pure greigite for non-enzymatic catalysis	Feiyang Liu, Yu Su, Huiwen Lin, Jingbo Nan
PN-2-13	6.1	Petrography and mineralogy of the Martian nakhlite meteorite Hassi Messaoud 001	Xinyi Tian, Fengke Cao, Yuyan Sara Zhao, Matthew Izawa, Yuangao Qu, Ning Ma
PN-2-14	6.1	Quantifying shock metamorphism in lunar meteorites using Warren–Averbach analysis and pair distribution functions	Matthew Izawa, Andrew Jephcoat, Laura Jenkins, Edward Cloutis, Daniel Applin, Kristi Peters, Roberta Flemming, Phillip McCausland, Brendon Hall, Fengke Cao
PN-2-15	6.2	Evolution of garnet peridotites from Mica Hill (Polar Urals): From rifting to subduction and exhumation of the continental margin of the Baltica craton	Vladimir Shmelev, Nikolai Gubanov, Fancong Meng, Vasiliy Chervyakovskiy
PN-2-16	6.2	Geochronology of ultrahigh-pressure metamorphism in the Western Himalaya and implications for the India-Asia collision	Mingcheng Duan, Lifei Zhang
PN-2-17	6.2	F-type olivine fabric: Recording UHP deformation in continental subduction zones	Yongfeng Wang, Junfeng Zhang, Wenlong Liu, Dapeng Wen, Yi Cao, Haijun Xu
PN-2-18	7.1	Temporal evolution of controlling factors in sedimentary manganese mineralization revealed by machine learning	Fengping Chen, Xiaolin Zhang
PN-2-19	7.1	Mineralogical and in-situ carbon isotopic evidence for microbial involvement in the ooid mineralization process of Xuanlong-type iron ores	Ganyu Tang, Yong Lai
PN-2-20	7.1	Core-mantle-shell spheroidal microfossils from the Paleoproterozoic Yuanjiacun banded iron formation: Direct evidence for microbial iron oxidation	Qilin Huang, He Zhang, Siyi Huang, Yuanfeng Cai
PN-2-21	7.1	Microbe-mediated iron precipitation in the Paleoproterozoic Astringbulake BIF, Xinjiang: Insights from REE characters	Jingyi Yuan, Qilin Huang, He Zhang, Yuanfeng Cai
PN-2-22	7.1	Intracellular nanoparticle accumulation promotes metabolic adaptation of methanogens to metal sulfide utilization	Yidi Zhang, Donglei Zhang, Yizhi Sheng, Hongyu Chen, Gaoyuan Li, Hailiang Dong
PN-2-23	7.2	Equilibrium pressure–temperature conditions, water content and im-plications of olivine inclusions in alluvial diamonds from the Yuanshui River Basin	Yuqian Zhan, Weizhang Liang, Zhili Qiu

PN-2-24	7.2	The role of minerals in prebiotic evolution: A key to habitable worlds detection	Houze Lu, Yan Li, Dehai Liang
PN-2-25	7.3	Yulinite, SrNb_2O_6 , a new mineral from the Bayan Obo deposit, Inner Mongolia, China	Guanghua Liu, Xiangping Gu
PN-2-26	7.3	Sombrereteite, $\text{NaCa}_3(\text{Al}_7\text{Si}_9)\text{O}_{32}$, a new mineral from the Sombrerete iron meteorite in the Cerro del Sombrerete, Zacatecas, Mexico	Xiangping Gu, Hexiong Yang
PN-2-27	7.3	Georgeliuite, $\text{Ca}_2\text{Mn}^{3+}_3\text{O}_2(\text{AsO}_4)_3(\text{H}_2\text{O})_2 \cdot \text{H}_2\text{O}$, a new mineral from the Jote mine, Atacama Region, Chile	Xiangping Gu, Hexiong Yang
PN-2-28	7.3	Guixiangite, NiBiS , a new mineral from the Longhua Ni-Co hydrothermal vein deposit, Dayaoshan area, South China	Nie Xiao, Xue Yuan
PN-2-29	7.4	Special research methods for ore-forming alteration minerals	Jianling Xue
PN-2-30	7.4	Factors controlling rare earth mineralization in regolith and effective indicators for exploration	Wei Tan, Lianying Luo
PN-2-31	7.4	Magnetite geochemistry of the large Erdaokan Ag deposit in Heilongjiang, NE China: Constraints on the ore-forming process	Anzong Fu, Chenglu Li, Wenpeng Yang, Masroor Alam, Changzhou Deng, Yuanjiang Yang, Bo Zheng, Ruijun Zhao, Maowen Yuan
PN-2-32	7.4	La speciation in F-rich alkaline hydrothermal fluids and its role in rare-earth mineral formation.	Qi Cao, Jiabin Wang
PN-2-33	7.4	Characteristics of trace elements of pyrites and Au-Ag-tellurides in the Sanhetun gold deposit, Heilongjiang Province: Implications for the metallogenesis	Huajuan Gu, Huilin Shi, Chenglu Li, Bowen Li, Yuanjiang Yang, Lili Liu
PN-2-34	7.4	Isotopic application in high saline conditions	Minghui Li, Xiaomin Fang, Jiao Li, Maodu Yan, Shurui Sun
PN-2-35	7.4	The mineralization age of Xiangtanzi gold deposit in the Western Qinling area, China: Evidence from sericite Rb-Sr dating, garnet and zircon U-Pb dating	Chenggui Lin, Zhizhong Cheng, Zezhong Du, Zhenshan Pang, Jianling Xue, Jingwen Mao
PN-2-36	7.4	Pyrite thermoelectricity and in-situ trace elements: Implications for deep prospecting at the Qinglonggou gold deposit, Northern margin of Qaidam Basin	Yiming Xie, Min Chen, Jian Li, Genhou Wang, Wentao Zhao, Hailin Xie, Jinhua Ma
PN-2-37	7.4	Mobilization and extreme enrichment of Ti in hydrothermal systems during continental collision	Qiuping Qiang, Chen Xin

PN-2-38	7.4	Geological, mineralogical and geochemical constraints on the contrasting metallogenic pathways of Late Paleozoic manganese deposits in west Tianshan and west Kunlun, Northwest China	Sida Niu, Liqun Zhao, Lingchao Mo, Wendi Chao, Zhenfu Zhang, Heqi Chen
PN-2-39	7.4	Mineralogical characteristics and genesis study of banded iron formations in the Hamersley Basin, Western Australia	Siyi Huang, He Zhang, Qilin Huang, Yuanfeng Cai, Jingyi Yuan, Yuli Yuan, Jingbo Xu
PN-2-40	7.4	Geochemical signatures of key minerals in the Longtoushan gold deposit, Guangxi: Implications for hydrothermal alteration patterns, and ore-forming mechanisms	Yuqing Yin, Bo Xu, Maowen Yuan
PN-2-41	7.4	Atomic-scale insights into pyroxene exsolution: An HRTEM study of garnet peridotite from the Polar Urals	Yazhou Fan, Fancong Meng, Vladimir Shmelev
PN-2-42	7.4	Diagenetic and metallogenic ages of the Jiazishan Mo deposit, Inner Mongolia, China: Constraints from zircon U-Pb and molybdenite Re-Os dating	Zhenliang Wang
PN-2-43	7.4	Constraints on the serpentinite nature in Qingshuiquan area of the East Kunlun Orogenic Belt	Fancong Meng, Songyong Chen, Hua Xiang, Xuepeng Duan
PN-2-44	7.4	On the conceptual foundations, contemporary research paradigms, and evolving knowledge architecture of genetic mineralogy	Sheng-Rong Li, Lin Li, Mao-Wen Yuan, Masroor Alam
PN-2-45	7.5	Constraints from sulfide trace elements and S-Zn isotopes on the genesis of the Kangjiawan Pb-Zn polymetallic deposit, Nanling metallogenic belt, South China	Yi Zhang, Xin-Shui Wang
PN-2-46	7.5	Magmatic controls on Ag mineralization in the Shuangjianzishan deposit, NE China: Insights from zircon and apatite	Hang-Jin Jiang, Jian-Wei Li, Jin-Hao Liu
PN-2-47	7.5	Scheelite trace element composition constraints on the genetic link between low-temperature Sb-Au-W and high temperature W mineralization in South China	Hongwei Peng, Shanling Fu
PN-2-48	7.5	Apatite volatile contents of porphyry Cu deposits controlled by depth-related fluid exsolution processes	MingLiang Huang, Jing-Jing Zhu, Massimo Chiaradia, Rui-Zhong Hu, Lei-Luo Xu, Xianwu Bi
PN-2-49	7.5	Revealing the genetic relationship between gold mineralization and magmatism in Jiaodong Peninsula through zircon, apatite and hornblende chemistry	Lichuan Pan, Haodong He, Haidong Zhang, Zhuojun Xie, Qian Liu, Jingdan Xiao, Chusi Li, Ruizhong Hu

PN-2-50	7.5	Porphyry fertility evaluation and hydrothermal center vectoring in the periphery of the Sandaowanzi epithermal Au deposit, NE China	Zong-Yong Yang, Jing-Jing Zhu, Xing-Chun Zhang, Dongyan Shi, Kun Zhang, Shitao Zhang
PN-2-51	7.5	Pyrite-hosted primary and secondary gold-telluride mineralization at Xiaoyingpan: discriminating the roles of coupled dissolution-precipitation and Te-Au-Ag melts	Dazhao Wang, Dahong Xiao
PN-2-52	7.5	Source of the Dahongshan Cu-Fe deposit, Yunnan, China: Evidence from in-situ trace elements and sulfur isotopes of sulfides	Kangping Shi, Jiaxi Zhou
PN-2-53	8.1	Trace element variations in the Setouchi high-Mg andesites: Implications for slab-derived melt contributions and along-arc heterogeneity	Hironao Shinjoe, Yuji Orihashi, Takahito Osawa
PN-2-54	8.1	Speciation of W and Mo in hydrothermal and deep subduction zone fluids	Naoko Takahashi, Michihiko Nakamura, Shigeru Yamashita, Hiroyuki Kagi
PN-2-55	8.1	Melting and crystallization experiments constraints of water and fluorine on highly fractionated granitic magma evolution	Yao Lu, Haihao Guo
PN-2-56	8.1	Global resurfacing on Venus by volatile-induced mantle overturn	Yajie Zhao, Zhongqing Wu, Jian Song
PN-2-57	8.1	Machine learning prediction of pyroxenite partial melting behavior	Le Huangfu, Jia Liu, Zhikang Luan, Tianting Lei, Denggang Lu
PN-2-58	8.1	Electrical conductivity measurements of aqueous fluids under crustal conditions in multi-anvil apparatus	Jinyan Wu, Haiying Hu, Lidong Dai, Ziming Hu, Song Luo
PN-2-59	8.3	Source versus process controls high Sr/Y signatures? A case study of Early Paleozoic granites from the Wuyi-Yunkai orogen, South China	Yuanlan Tang, Tony Kemp, Junhong Zhao
PN-2-60	8.3	Water-rock interaction in the high-temperature geothermal system of the northeastern Datong Basin, North China: Evidence from fluid inclusions in hydrothermal alteration veins of drill cores	Dongdong Yuan, Qiang Liu
PN-2-61	8.4	Deep carbon cycling and climatic response of the Western Pacific subduction system recorded by Cenozoic intraplate basalts	Chengcheng Cai, Yiwen Ju, Peiyun Guan
PN-2-62	8.4	Machine learning constraints on carbon and chlorine distribution in the mantle	Jia Liu, Qunke Xia
PN-2-63	8.4	Coupling of water and fluorine in forsterite and its implications for upper mantle volatiles	Zhicheng Zhu

PN-2-64	9.1	Retrograde metamorphism recorded by the mineral assemblage of Guatemalan jadeitite	Guanghai Shi, Biqian Xing, Jiabao Wen, Jiayi Lun
PN-2-65	9.2	An occurrence of the yttrium-vanadate Wakefieldite in an epidote amphibolite of the Horokanai Unit Kamuikotan metamorphic belt, central Hokkaido, Japan	Kosuke Naemura, Taro Kato, Toru Takeshita
PN-2-66	3.4	Development of Hf isotope analytical methods for columbite-group minerals and their application to Nb-Ta mineralization	Zhi-Min Tang, Xu-Dong Che, Ru-Cheng Wang, Yue-Heng Yang
PN-2-67	3.4	Lithium enrichment in claystones of the Jiucaitang deposit, Shirenbei Basin, South China	Shuai Huang, Xudong Che, Rucheng Wang, Xiancai Lu, Fei Deng

◆ General Information ◆

Venue

Hotel/Venue: International Youth Convention Hotel

Chinese name: 南京国际青年会议酒店

Address in Chinese: 南京市建邺区邺城路8号

Address in English: No.8 Ye Cheng Road, Jian Ye, Nanjing, China

Telephone: +86 25 8653 8888

Please save the Chinese name and address on your phone and show them to the taxi driver if necessary.

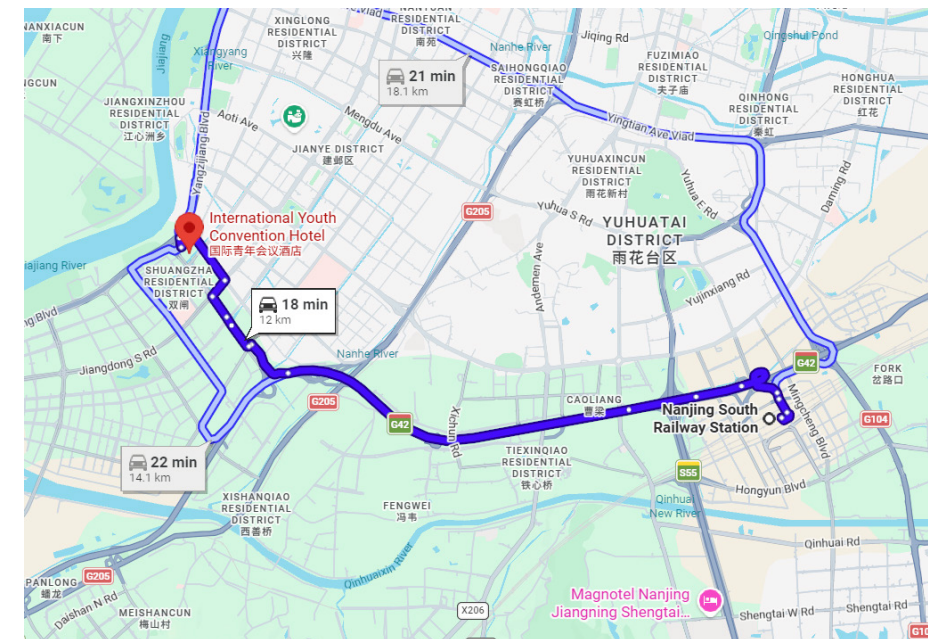


Transportation

Recommended Transportation: Taxi or Ride-Hailing

For international participants, especially those carrying luggage or visiting China for the first time, taking a taxi or using a ride-hailing service is recommended.

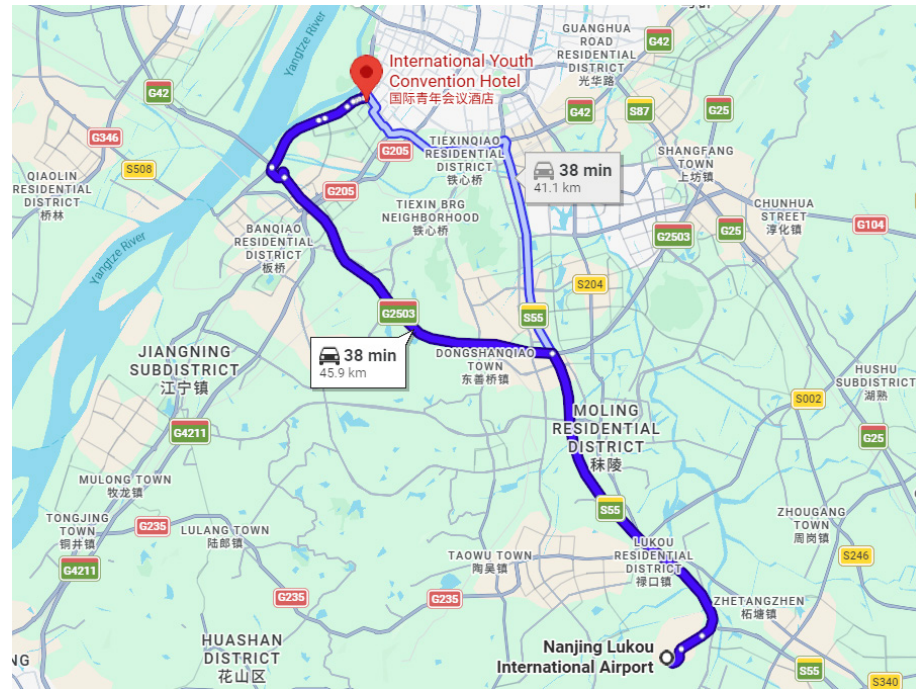
Nanjing South Railway Station to the hotel: approximately 12 km



Nanjing Railway Station to the hotel: approximately 18 km



Nanjing Lukou International Airport to the hotel: approximately 45 km



Taking a Taxi

Please use the official taxi queue at the railway station or airport. Do not accept unsolicited transportation offers from individuals inside the arrival hall.

Passengers may pay by:

- Alipay
- WeChat Pay, where available
- Cash in Chinese yuan

International credit cards cannot normally be used directly in every taxi. Participants are therefore advised to set up Alipay before travelling and carry a small amount of Chinese currency as a backup.

Using DiDi

DiDi is a widely used ride-hailing service in China. It can be accessed through:

- The DiDi App
- The DiDi mini-program within Alipay
- The DiDi mini-program within WeChat

You can refer to the following video “How To Use Didi App In WeChat or AliPay in China | 3 minute Guide”(https://www.youtube.com/watch?v=aTws4zYd2f4)

Availability and payment options depend on the user’s mobile number, account and bank card. Participants should complete registration and payment setup before departure.

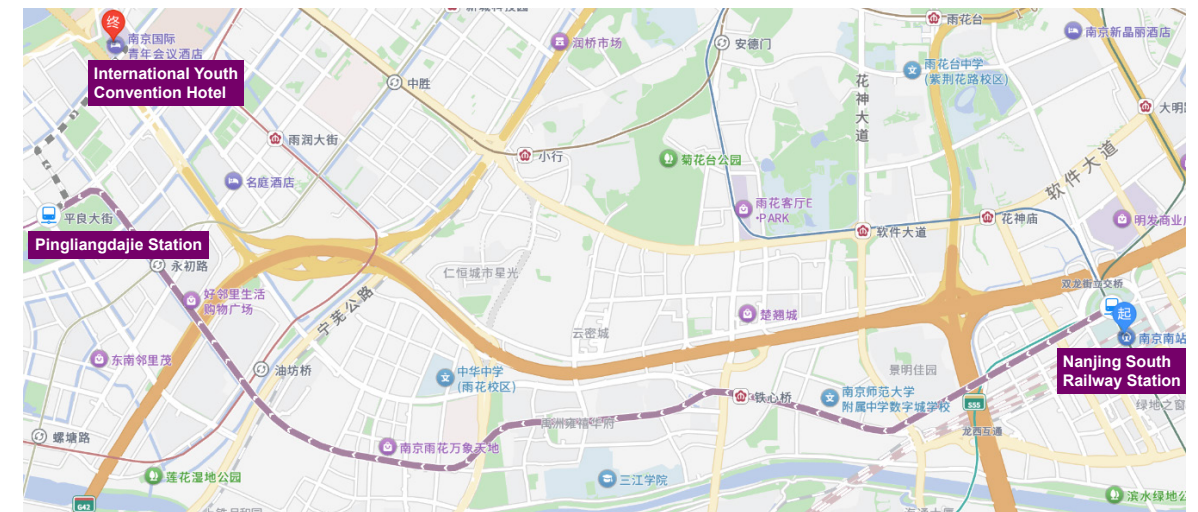
Pickup locations at airports and railway stations can be complex. Please follow the signs for the designated ride-hailing pickup area or ask a member of staff at the airport or railway station for assistance.

Nanjing Metro

The metro is recommended mainly for participants who are comfortable using public transportation in China. Passengers carrying large suitcases may find the transfers and walking distances inconvenient. Google Maps may have incomplete or inaccurate map, public transportation and navigation information in mainland China. Recommended **Apple Maps** or **Amap / Gaode Maps (高德地图)** instand.

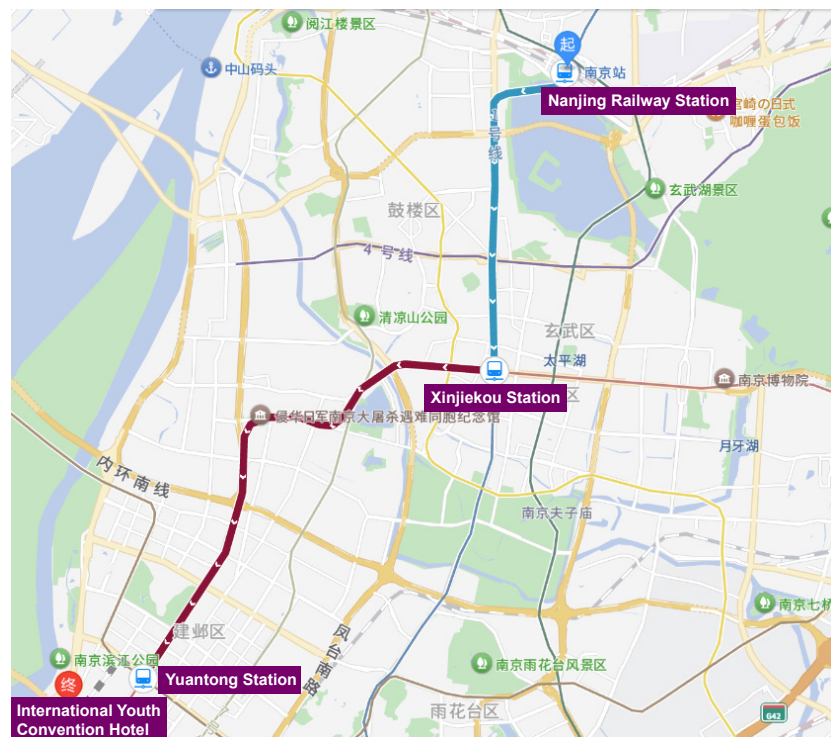
Most metro services operate approximately between 6:00 a.m. and 11:00 p.m., but the first and last train times vary by line, direction and station. Please check the latest schedule on the day of travel. Metro fares generally start at RMB 2 and depend on the distance travelled.

From Nanjing South Railway Station (50 min)



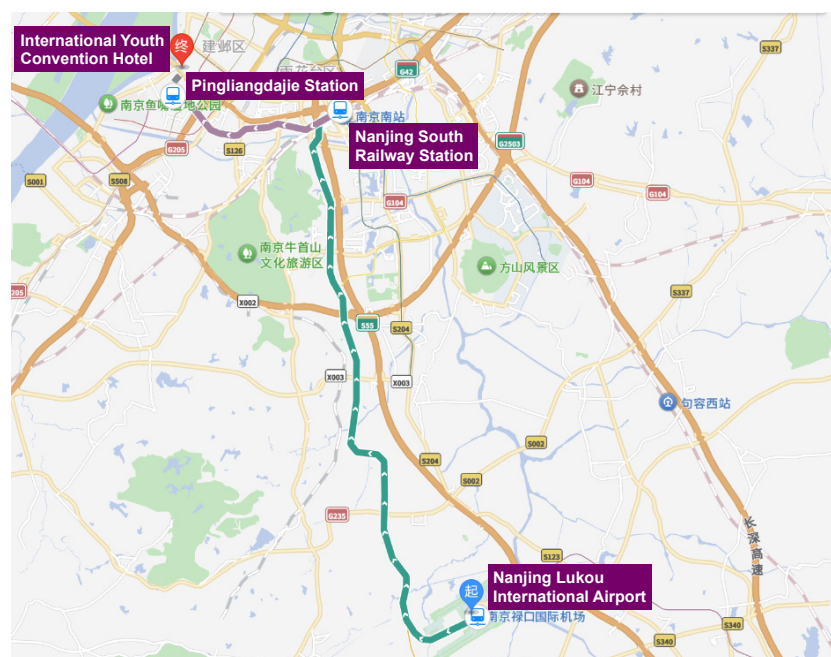
1. Take **Metro Line S3** towards **Gaojiachong (高家冲)**.
2. Get off at **Pingliangdajie Station (平良大街站)**.
3. Use **Exit 4**.
4. Walk 2 km or take a short taxi ride to the hotel.

From Nanjing Railway Station (50min)



1. Take **Metro Line 1** towards **China Pharmaceutical University (中国药科大学)**.
2. Change at **Xinjiekou Station (新街口站)**.
3. Take **Metro Line 2** towards **Yuzui (鱼嘴)**.
4. Get off at **Yuantong Station (元通站)**.
5. Use **Exit 1**, then walk 2km or take a short taxi ride to the hotel.

From Nanjing Lukou International Airport (90 min)



1. Take **Metro Line S1** towards **Nanjing South Railway Station (南京南站)**.
2. Change at Nanjing South Railway Station.
3. Take **Metro Line S3** towards **Gaojiachong (高家冲)**.
4. Get off at **Pingliangdajie Station (平良大街站)**.
5. Use **Exit 4**, then walk 2 km or take a short taxi ride to the hotel.

Paying for the metro

Option 1: Buying a Single-Journey Ticket

Single-journey tickets can be purchased from ticket machines at metro stations.

Small-denomination cash may be useful, including:

- RMB 1 coins
- RMB 5 notes
- RMB 10 notes

If the machine does not accept your payment, please ask for assistance at the station service centre. Keep the ticket throughout the journey, as it is required when exiting the station.

Option 2: Using a Metro QR Code in Alipay

Eligible users may activate the local public transportation or metro QR code in Alipay.

The exact menu and verification requirements may vary. Station staff may be able to assist. Once activated, open the QR code and scan it at the designated reader when entering and exiting the station.

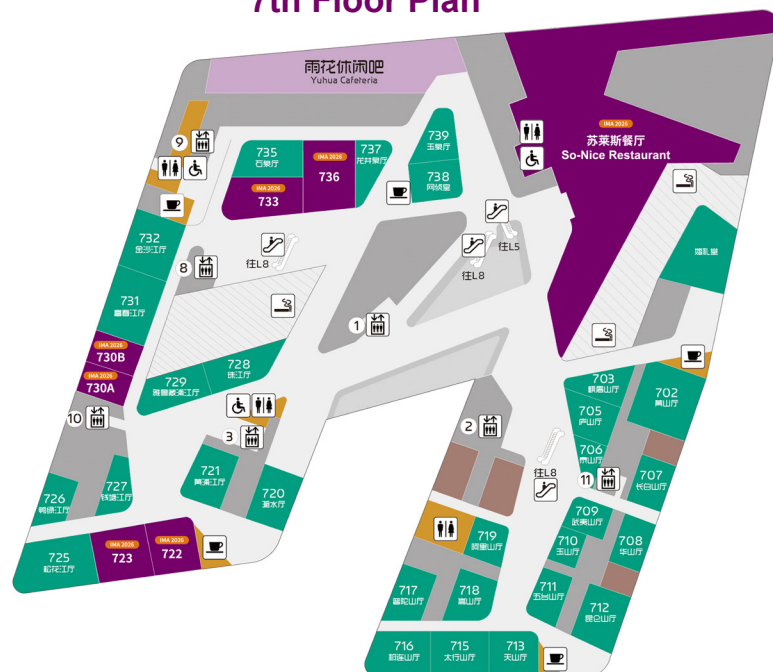
Please do not place your phone in the slot intended for physical tickets. Look for the QR-code scanner on the ticket gate.

Floor Plan

5th Floor Plan



7th Floor Plan



8th Floor Plan



Mobile Payment

Alipay

International visitors can generally:

- 1.Download the Alipay App.
- 2.Register using an overseas mobile number.
- 3.Complete any required identity verification.
- 4.Add an eligible international bank card, such as Visa or Mastercard.

Card eligibility, transaction limits and service fees are determined by Alipay and the issuing bank and may change. Participants are advised to complete the setup and make a small test payment before travelling.

WeChat Pay

WeChat Pay may also allow eligible international bank cards to be added. However, account verification and card support may vary. It is best used as an additional payment option rather than the only payment method.

Cash

Chinese yuan is accepted as legal tender. Participants should carry a small amount of cash for emergencies, particularly in case of:

- Mobile network problems
- Low phone battery
- Payment verification failure
- International bank card rejection

Larger banknotes may be difficult to change for very small purchases.

Booking Train Tickets

Option 1: Railway 12306

Railway 12306 is China's official railway ticketing platform and usually offers the lowest ticket price without third-party booking fees.

Participants can:

- Download the English version of Railway 12306.
- Register using passport information.
- Complete identity verification in advance.
- Pay using an eligible international bank card or another supported payment method.

Important reminders:

- Enter your name exactly as it appears on your passport.
- Use the same passport for booking and travel.
- Bring the original passport to the railway station.
- If the automatic gate cannot read the passport, ask staff to use the manual inspection channel.
- Complete registration and identity verification well before the intended travel date rather than waiting until departure day.

Option 2: Trip.com

Trip.com is generally easier for international travellers and supports foreign passports.

Payment options may include:

- Visa
- Mastercard
- Apple Pay
- Other payment methods shown at checkout

Trip.com may charge a booking or service fee. Please carefully check the train number, departure station and arrival station before payment, as some cities have several railway stations.

Booking Flights

Flight tickets cannot be purchased through Railway 12306.

Participants may book flights through:

- The airline's official website or App
- Trip.com
- Another reputable international travel platform

Please ensure that the passenger's name and passport details exactly match the passport used for travel. Baggage allowances and ticket-change policies vary by airline and fare type.

Emergency & Medical Support

1. National Emergency Numbers

Police: 110

Ambulance / Medical Emergency: 120

Fire: 119

Note: English-speaking operators may not always be available on these lines. In non-life-threatening situations, we highly recommend contacting the hotel front desk or our conference staff first for translation assistance.

2. Conference Emergency Contacts

If you require immediate assistance, medical translation, or encounter any emergencies during the conference, please contact our on-site staff:

Jing Su: +86 18583628860

Danni Ge: +86 15150528296

3. First Aid & Pharmacies

A basic first aid kit is available at the hotel reception desk and the conference registration desk.

While there are local pharmacies (药房 - Yàofáng) near the hotel for over-the-counter medication, please note that pharmacists may not speak English. Please ensure you have an adequate supply of your personal prescription medications for the duration of your trip.



◆ Neighborhood Guide ◆

Area Overview Map

The map below shows all key destinations within 2 km of the conference venue. Red = IYCC Venue. Orange = Shopping, Dining & Nightlife. Green, Purple = Parks & Leisure.

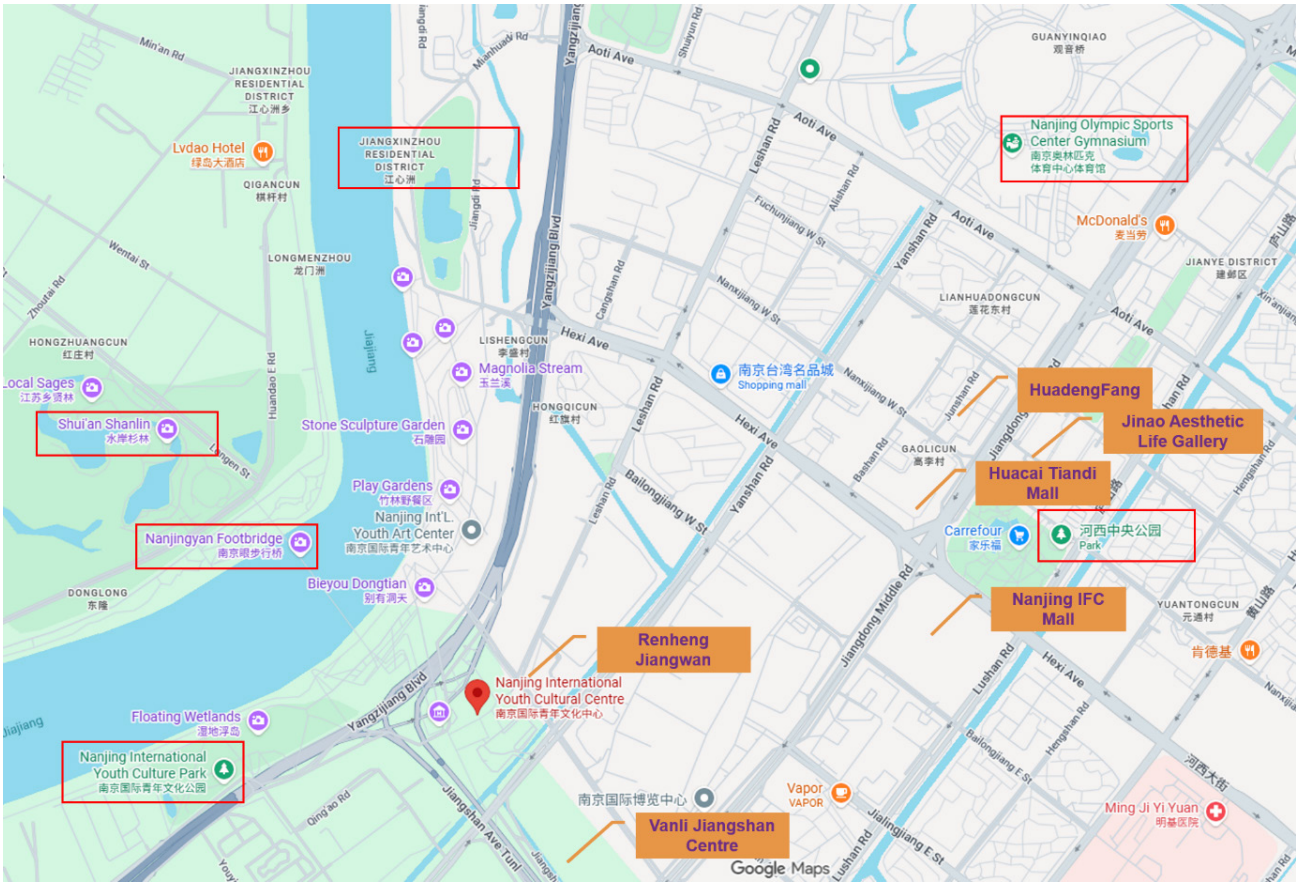


Photo: Overall area map — 2 km radius around Nanjing IYCC.

1. Dining — A Complete Culinary Atlas

Over 60 restaurants spanning Chinese regional cuisines, Japanese, Korean, Turkish, and European fare. Prices in CNY per person.

◆ Huaiyang & Nanjing Classics

The refined cuisine of Jiangnan: delicate flavors, artful presentation, and the legendary Nanjing salted duck.

Restaurant	Location	Avg.	Rate	Why Go
Danfeng Yulu Nanjing Flavors	Renheng Jiangwan L2	105	4.8	Intimate private dining rooms serving soulful Nanjing home-style dishes — a hidden gem beloved by locals.

Haoji Jinling Banquet	Renheng Jiangwan L2	149	4.8	Classic Huaiyang cuisine in a garden-inspired setting. Ideal for hosting visiting scholars over a refined banquet.
Hou Weidao Chinese Restaurant	IYCC Hotel 3F	181	4.7	The venue's signature Huaiyang restaurant. Their award-winning salted duck and crabmeat lion's head meatballs are local legends.
Kai Yan Banquet	Expo Centre Ph 3	262	4.7	Top-tier banquet dining for formal occasions — impeccable service and an opulent ambiance.

◆ Cantonese, Seafood & Fusion

Restaurant	Location	Avg.	Rate	Why Go
RONG57	IYCC Hotel 57F	273	4.8	The highest panoramic restaurant in the Twin Towers, famed for its signature braised yellow croaker and sweeping river vistas.
Hai Sha Wan Seafood Hall	Jiangshan Ave	220	4.8	Premium seafood presented as edible art — choose your live catch and watch it transformed tableside.
Ping Hai Guan Lan	Pengpai Centre	271	4.8	Secluded private dining with a seafood-forward fusion menu that blends coastal Chinese traditions.
Zechuan Taste Space	IYCC Hotel 41F	330	4.2	Elegant sky-high Chinese dining with sophisticated interiors and an extensive wine list.
Banma Restaurant	Renheng Jiangwan L1	152	4.6	Wenzhou-style seafood with delicate fish cakes and fresh daily catches — a taste of Zhejiang's coast.
Lu Chao New Style Chinese	Jumeirah 40F	333	4.5	Modern Cantonese with breathtaking skyline views from the 40th floor. Dim sum and roast meats of exquisite quality.

◆ Japanese Cuisine

Restaurant	Location	Avg.	Rate	Why Go
Jie Niu Charcoal Yakiniku	Renheng Jiangwan B1	187	4.8	Premium Japanese charcoal-grilled wagyu with melt-in-your-mouth ox tongue — a carnivore's paradise in a cozy basement den.
Fuye Yakitori & Live Eel	Jiangshan Centre	174	4.6	Masterfully grilled yakitori and fresh unagi, open until 2 AM — a late-night izakaya experience at its finest.
Yushan Japanese Buffet	Renheng Jiangwan	381	4.6	Luxurious all-you-can-eat Japanese dining with tatami private rooms — sashimi, tempura, and premium sake included.

◆ Korean Cuisine

Restaurant	Location	Avg.	Rate	Why Go
Stone Plate King Korean BBQ	Renheng Jiangwan B1	108	4.3	Sizzling stone-plate Korean barbecue with fresh, thick-sliced pork belly and all the classic banchan sides.

◆ Western & International

From German brewhouses to Turkish grills, Italian trattorias to French steakhouses — a world tour within walking distance.

Restaurant	Location	Avg.	Rate	Why Go
Mars Vava Brunch & Bistro	Bubugao Tower	—	4.8	Jianye's #1 steakhouse on review charts — French-inspired fusion brunch and bistro fare in a chic, modern space.
Zhuoxian Seafood Bar & Grill	Jumeirah 41F	527	4.7	The pinnacle of luxury dining in Hexi — premium seafood and cocktails with panoramic Yangtze River views.
Leike German Brewery Restaurant	IYCC Hotel	—	—	Hearty German meat platters paired with house-brewed craft beer — right inside the conference venue.
Xiang All-Day Dining	IYCC Hotel 2F	150	4.5	The hotel's global buffet spanning Asian, Western, and seafood stations — an easy, reliable choice any time of day.
Jumeirah Twins All-Day Dining	Jumeirah 39F	356	4.2	Sky-high international buffet with dazzling city night views from the 39th floor of the Jumeirah tower.

◆ Tea Houses, Cafes & Quick Bites

Venue	Location	Avg.	Rate	Highlights
Minglu Tea & Dining	Renheng Jiangwan 2F	150	4.1	A serene tea-and-dine space where fine Chinese teas meet light cuisine — perfect for a quiet scholarly conversation.
Jiangwan Teahouse	Miaomiao Street	101	4.6	Traditional tea ceremony meets modern meeting space. Their aged pu'er and riverside terrace are equally compelling.
Starbucks	Renheng Jiangwan 1F	32	4.3	Your familiar caffeine fix at the foot of the Twin Towers — grab a latte between sessions.
Burger King	Renheng Jiangwan 1F	34	4.3	Quick, familiar fast food when you need a no-fuss bite between presentations.

Chen's Tujia Home Cooking	Renheng Jiangwan B1	92	4.0	Hearty Tujia ethnic minority home cooking — rustic, spicy, and generously portioned.
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2. Leisure & Riverside Walks

The Twin Towers sit directly on the Yangtze riverfront. Step outside and you are on one of Nanjing's most spectacular urban greenways.

◆ At Your Doorstep (5-minute walk)

Destination	Dist.	Rate	Why Go
Nanjing International Youth Culture Park	~156 m	4.7	Your number one escape between sessions. A 1.8 km waterfront boardwalk with the dazzling Nanjing Eye bridge as its centerpiece — especially magical at sunset.
Nanjing Eye Pedestrian Bridge	Inside park	—	Nanjing's newest icon. This sculptural cable-stayed bridge transforms into a light show after dark — free to cross, unforgettable to photograph.
Youth Olympic Village Plaza	~380 m	—	An expansive open plaza built for the 2014 Youth Olympics — perfect for an evening stroll or morning jog.
International Youth Culture Square	~314 m	—	A versatile public square hosting outdoor cultural performances and community gatherings year-round.
Wetland Garden	~623 m	3.6	A hidden ecological gem that bursts into golden canola blooms in spring — a splash of countryside in the CBD.



Photo: The Nanjing Eye pedestrian bridge — a must-see landmark steps from the venue.

◆ Worth the Extra Stroll

Destination	Dist.	Rate	Why Go
Binjiang Park	~800 m	4.6	The grand riverside greenway featuring the seasonal Left Bank Flower Sea — cosmos and pink muhly grass in summer.
Youth Olympic Community Park	~733 m	—	A well-maintained community green space popular with local families and joggers.
Youth Olympic Forest Park	~1 km	4.8	A forested island sanctuary on Jiangxinzhou, open 24 hours. Towering dawn redwoods and tranquil trails make it feel worlds away from the city.
Hexi Central Park	~2 km	4.3	The CBD's central green axis — during cherry blossom season, the tree-lined promenade becomes a pink wonderland.
Huaxincheng Sports Park	~1 km	4.2	A sports-themed park with basketball courts, running tracks, and outdoor fitness zones — break a sweat with a view.

◆ Recommended Routes

- Sunset Riverside Walk (~40–60 min): IYCC → Culture Park Boardwalk → Nanjing Eye Bridge → River Viewing Platform. The bridge lights up as dusk falls — Nanjing's most photogenic hour.
- Cycling Route: Follow the riverside greenway north to the Left Bank Flower Sea (pink muhly grass in late summer), or south across the bridge to the Youth Olympic Forest Park on Jiangxinzhou Island.

3. Cultural Visits & Architecture

You are already staying inside one of Nanjing's most iconic modern architectural ensembles — Zaha Hadid's Twin Towers. The area offers rich cultural experiences.



Photo: The IYCC Twin Towers by Zaha Hadid — Nanjing's most futuristic architectural landmark and your conference venue.

◆ On-Site & Adjacent Cultural Landmarks

Venue	Location	Why Visit
Poly Grand Theatre	Adjacent (6 Yecheng Rd)	One of Zaha Hadid's final masterpieces. A 1,917-seat grand theatre and 441-seat concert hall host opera, ballet, symphony, and drama year-round.
Golden Concert Hall	Inside IYCC	A striking modern performance space within the Twin Towers complex for professional concerts and cultural events.
The Twin Towers Themselves	Conference venue	Zaha Hadid's bold deconstructivist design — two flowing white towers that are Nanjing's most photographed modern landmark. Worth exploring from every angle.
Nanjing Eye Bridge	Inside Culture Park	A sculptural pedestrian bridge turned social media sensation. Its asymmetric cable-stayed form glows with shifting colors after dark.

4. Transportation Quick Reference

◆ Metro

Line	Station	Distance	Notes
Line 2	Yuantong Station	~1.8 km (25-min walk)	East-west artery connecting to Xinjiekou downtown and Ming Dynasty landmarks.
Line 10	Yuantong / Yurun Dajie	~2 km	Cross-river line linking Hexi to Pukou and northern districts.
Line S3	Pingliang Dajie	~0.8 km (closest!)	The nearest metro station to the venue — ~20 minutes to Nanjing South Railway Station.

◆ Bus & Tram

- Bus routes 7, 102, 109, D22, Y7 (night) serve the "International Youth Cultural Centre" stop directly in front of the venue.
- Tram Line 1: Jiangshan Dajie station provides a scenic above-ground connection through the Hexi district.

◆ Airport Access

- Nanjing Lukou International Airport (NKG): ~40 minutes by taxi. Metro Line S1 connects to Nanjing South Railway Station, then transfer to Line S3 to Pingliang Dajie station (closest to venue).

◆ Conference Travel Guide ◆

1. Xuanwu Lake Scenic Area (玄武湖景区)

Xuanwu Lake Scenic Area is a National AAAA Tourist Attraction, National Key Park, and National Water Conservancy Scenic Area. Located in the central urban area of Nanjing, it is one of the city's most famous cultural and ecological landmarks.

Recommended Visiting Route

Xuanwu Lake Scenic Area is free to enter and is suitable for a relaxing walk after conference activities. Visitors are recommended to spend 2–3 hours exploring the main attractions. The suggested route is Xuanwu Gate, Huanzhou, Yingzhou, Liangzhou, Ming City Wall Viewpoint, Lovers Garden. Comfortable walking shoes are recommended, and the late afternoon is an ideal time to enjoy the lake scenery and sunset views.

Essential Visitor Information:

- **Address:**

No. 1 Xuanwu Lane, Xuanwu District, Nanjing

- **Opening Hours:**

Lakeside Ring Road: Open 24 hours all year round

- **Admission Fees:**

The entire Xuanwu Lake scenic area: Free entry



Transportation Guide:

By Metro (60-70 minutes)

- Walk approximately 1.7 km from International Youth Convention Hotel to **Yuan Tong Metro Station (元通)**

- Take **Metro Line 2** from **Yuan Tong Station**
- Transfer to **Metro Line 1** in **Xin Jie Kou Station (新街口)**
- Get off at **Xuan Wu Men Station (玄武门)**
- Walk approximately **5 minutes** to **Xuanwu Lake Scenic Area**

By Taxi (30 minutes)

- Destination: Xuanwu Gate
- Estimated fare: ¥ 20–30

2. Nanjing Yangtze River Bridge (南京长江大桥)

Nanjing Yangtze River Bridge is an iconic landmark representing China's modern engineering achievements. Completed in 1968, it was the first independently designed and built road–rail bridge across the Yangtze River in China. Visitors can enjoy panoramic views of the Yangtze River and experience the historical significance of this landmark.

Recommended Visiting Route

The recommended visit to Nanjing Yangtze River Bridge takes approximately 1–2 hours. Visitors can start from the riverside viewing area, enjoy the panoramic scenery of the Yangtze River and the magnificent structure of the bridge, and then walk along the suspended glass walkway for a closer view of the steel framework and architectural details. The best visiting time is around sunset and after dark, when the warm lighting of the bridge creates a beautiful contrast with the blue-hour sky and shimmering river reflections. Visitors are encouraged to arrive about 30 minutes before sunset to fully appreciate the changing scenery and capture the most impressive views of this historic landmark.

Essential Visitor Information:

- **Address:**

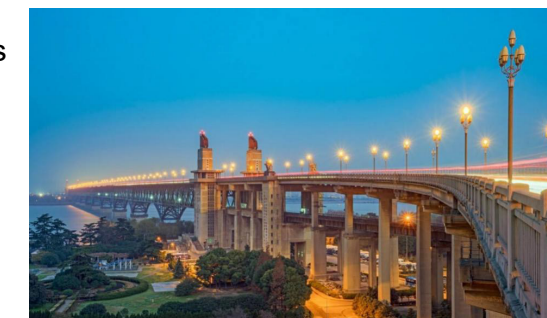
Nanpu Park, North Baotiao Road, Gulou District, Nanjing

- **Opening Hours:**

Nanpu Park & Riverside Viewing Area: Open 24 hours all year round

- **Admission Fees:**

Nanpu Park and glass walkway: Free entry



Transportation Guide:

By Metro (60-70 minutes)

- Walk approximately 1.7 km from International Youth Convention Hotel to **Yuan Tong Metro Station (元通)**

- Take **Metro Line 2** from **Yuan Tong Station**
- Transfer to **Metro Line 5** in **Shang Hai Lu Station (上海路)**
- Get off at **Fang Jia Ying Station (方家营)**
- Exit from **Exit 2**, and walk about 10 minutes to the riverside viewing area

By Taxi (30 minutes)

- Destination: Nanpu Park (南堡公园)
- Estimated fare: ¥ 20-30



3. Zhongshan Scenic Area (钟山风景区)

Zhongshan Scenic Area, located in the eastern part of Nanjing and centered around Purple Mountain (紫金山), is a National AAAAA Tourist Attraction combining natural landscapes, historical heritage, and cultural landmarks. It is one of the most representative scenic areas in Nanjing, featuring famous attractions including Sun Yat-sen Mausoleum, Ming Xiaoling Mausoleum, Linggu Temple, Music Stage, Meiling Palace, and Plum Blossom Hill. Due to its large area, visitors are recommended to plan their route in advance.

Quick Guide for Conference Participants

The classic one-day route is: Meiling Palace, Ming Xiaoling Mausoleum, Sun Yat-sen Mausoleum, Music Stage, Linggu Scenic Area. Visitors can combine walking and sightseeing shuttle buses to explore the highlights efficiently. A half-day to full-day visit is recommended. Comfortable walking shoes are advised, and the morning or late afternoon is an ideal time to enjoy the mountain scenery and historical sites.

Essential Visitor Information:

- **Address:**

No.7 Shixiang Road, Xuanwu District, Nanjing

- **Opening Hours:**

Mountain forest area: Open 24 hours all year round

Sun Yat-sen Mausoleum Core Zone:

8:30 AM - 5:00 PM (Last entry at 4:30 PM), closed every Monday (Open as usual on legal public holidays, Sun Yat-sen's birthday and death anniversary)

Ming Xiaoling, Linggu Scenic Area, Music Stage:

February - November: 6:30 AM - 6:30 PM

Meiling Palace: 7:30 AM - 6:00 PM (Ticket sales stop at 5:30 PM)

- **Admission Fees:**

Sun Yat-sen Mausoleum: Free entry with advance real-name reservation

Single spot tickets:

Ming Xiaoling: ¥ 70 Meiling Palace: ¥ 30

Music Stage: ¥ 10 Linggu Scenic Area: ¥ 35

Combination ticket for four core attractions: ¥ 100

Sightseeing shuttle bus (unlimited rides within one day): ¥ 30

Free Entry: Children under 1.4 m / under 6 years old, seniors aged 70+, active military, fire rescue personnel, disabled visitors (valid ID required)

Half Price: Visitors aged 6 - 18, full-time students, seniors aged 60 - 69 (valid ID required)



Transportation Guide:

By Metro (80-90 minutes)

- Walk approximately 1.7 km from **International Youth Convention Hotel to Yuan Tong Metro Station (元通)**

- Take **Metro Line 2** from **Yuan Tong Station (元通)**

- Get off at **Mu Xu Yuan Station (苜蓿园)**

- Exit from **Exit 3**

By Taxi (40 minutes)

- Destination: Meiling Palace (美龄宫)

- Estimated fare: ¥ 25-40

4. Niushou Mountain Cultural Tourism Zone (牛首山文化旅游区)

Niushou Mountain Cultural Tourism Zone, located in the southern part of Nanjing, is a famous cultural and ecological attraction that combines Buddhist heritage, natural landscapes, and modern architectural design. As one of the most representative cultural destinations in Nanjing, it offers visitors a unique experience integrating history, spirituality, art, and scenic beauty. The highlight of the scenic area is Foding Palace (佛顶宫), renowned for its spectacular underground palace, magnificent Thousand Buddha Hall, and distinctive dome-shaped architecture. In addition to its Buddhist cultural attractions, the scenic area also features beautiful mountain landscapes, tranquil temples, and panoramic views of Nanjing, making it an ideal destination for visitors seeking both cultural exploration and relaxation.

Recommended Visiting Route

A convenient half-day route is recommended: Entrance, Sightseeing Shuttle Bus, Foding Palace, Foding Pagoda, Foding Temple, and Exit. Visitors are advised to arrive early in the morning to avoid peak crowds. The sightseeing shuttle bus is highly recommended to save energy, especially during summer. The main attractions can be comfortably explored within 3-4 hours.

Essential Visitor Information:

- **Address:**

No.18 Nindan Avenue, Jiangning District

- **Opening Hours:**

Monday to Thursday & Sunday: 8:30 AM - 5:30 PM (Last entry at 4:30 PM)

Friday & Saturday (Summer night session): 8:30 AM - 8:30 PM (Last entry at 7:00 PM)

Sightseeing shuttle bus operating hours:

8:30 AM - 6:00 PM (Extended to 9:00 PM on Friday and Saturday)



• Admission Fees:

Same-day on-site ticket: ¥ 160 per adult

Online pre-sale ticket (one day in advance): ¥ 145 per adult

Sightseeing shuttle bus all-day pass: ¥ 20 per person (unlimited rides within one day)

Free Entry: Children under 6 years old or under 1.4 m, seniors aged 70+, active military, fire rescue personnel, and visitors with disabilities (valid ID required)

Half Price: Visitors aged 6 - 18, full-time students, seniors aged 60 - 69 (valid ID required)

Transportation Guide:

By Metro+Taxi (80-90 minutes)

- Walk approximately 1.9 km from **International Youth Convention Hotel** to **Yong Chu Lu**

Metro Station (永初路)

- Take **Metro Line S3** from **Yong Chu Lu Metro Station** (永初路)
- Get off at **Jia Xi Station** (贾西)
- Exit from **Exit 2**
- Take a taxi to Niushou Mountain (牛首山)
- Estimated taxi fare: ¥ 10 - 20



By Taxi (20-30 minutes)

- Destination: Niushou Mountain Cultural Tourism Zone (牛首山文化旅游区)
- Estimated taxi fare: ¥ 20 - 30

5. Nanjing Museum (南京博物院)

Nanjing Museum, located at the southern foot of Purple Mountain (紫金山), is one of the largest museums in China and the second-largest comprehensive museum after the National Museum of China. With a rich collection of historical relics, artworks, and cultural exhibits, it provides a comprehensive overview of Jiangsu's history and Chinese civilization from ancient times to the modern era.

Visiting Information

Admission is free, but advance reservation is required. Tickets are released daily at 18:00, with reservations available up to 7 days in advance through the official Nanjing Museum website. A recommended route includes the History Hall, Special Exhibition Hall, Republic of China Hall, Digital Hall, Art Hall, and Intangible Cultural Heritage Hall.

Essential Visitor Information:

• Address:

No. 321 Zhongshan East Road, Xuanwu District, Nanjing

• Opening Hours:

Tuesday - Sunday: 9:00 AM - 5:00 PM (Last entry at 4:00 PM)

Notice: All visitors need real-name reservation in advance; tickets are released at 6:00 PM daily for visits up to 7 days ahead via the official WeChat Mini Program

Admission Fees:

Basic permanent exhibitions: Free entry

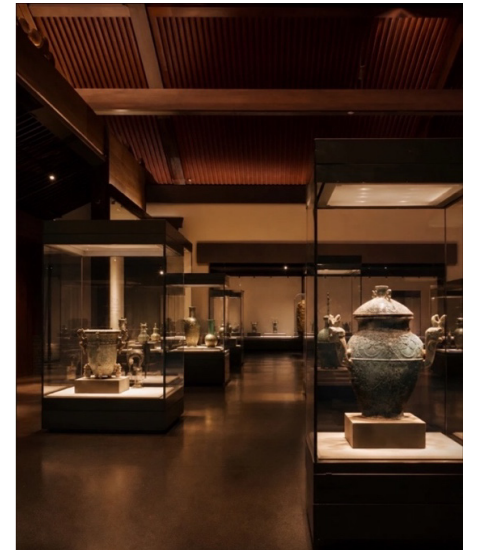
Transportation Guide:

By Metro (60-70 minutes)

- Walk approximately 1.7 km from **International Youth Convention Hotel** to **Yuan Tong Metro Station** (元通)
- Take **Metro Line 2** from **Yuan Tong Station** (元通)
- Get off at **Ming Gu Gong Station** (明故宫)

By Taxi (40 minutes)

- Destination: Nanjing Museum (南京博物院)
- Estimated fare: ¥ 25 - 40



6. Zhanyuan Garden (瞻园)

Nestled in the heart of the bustling Qinhuai River Scenic Belt, Zhanyuan Garden stands as Nanjing's oldest and best-preserved classical Ming-dynasty garden. Boasting a rich history spanning over six centuries, it was celebrated during the Ming dynasty as the "No. 1 Garden of the South."

Visiting Information

Zhanyuan Garden is split into two independent sightseeing zones: the Western Classical Garden and the Eastern Museum Area. The classic touring route follows South Gate → Taiping Heavenly Kingdom History Museum → Snow Wave Stone → South Rockery → Jingmiao Hall → North Rockery → Yilan Pavilion. Visitors are recommended to allocate 2 to 3 hours for daytime sightseeing and 1.5 hours for the night session.

Essential Visitor Information

- **Address:** No. 128, Zhanyuan Road, Qinhuai District
- **Opening Hours:**

Day Session: 8:30 AM – 5:00 PM (Last entry at 4:30 PM)

Night Session: 5:00 PM – 9:00 PM (Last entry at 8:30 PM)

Closure: Closed on Mondays (except public holidays)

- **Admission Fees:**

Day Ticket: ¥ 30

Night Ticket: ¥ 50

Annual Pass Holders: Free entry

Transportation Guide:

By Metro (around 60 minutes)

- Walk approximately 1.7 km from **International Youth Convention Hotel** to **Yuan Tong Metro Station (元通)**
- Take **Metro Line 10** from **Yuan Tong Station (元通)**
- Transfer to **Metro Line 1** in **An De Men Station (安德门)**
- Get off at **San Shan Jie (三山街)**

By Taxi (around 20 minutes):

- Destination: Zhanyuan Garden (瞻园)
- Estimated fare: ¥ 20 - 40



7. Nanjing Confucius Temple (夫子庙)

Built in honor of the great philosopher Confucius, this landmark is affectionately known by locals simply as "Fuzimiao" (Temple of the Master). Yet, it is far more than a single sanctuary—it once served as the cultural heart of ancient China and the educational center of Nanjing during the Ming and Qing dynasties, proudly earning the title "Center of Learning under Heaven."

Visiting Information

The scenic area combines temple, academy and commercial block, with three core must-see spots: Dacheng Hall, China Imperial Examination Museum and Qinhuai River cruise. The central axis features China's longest stone screen wall (110 meters), Panchi Pool and the iconic "Center of Learning" archway. It is recommended to reserve 3 to 4 hours for sightseeing, and the evening is the best time to enjoy river lantern scenery.

Essential Visitor Information

- **Address:** No. 152, Gongyuan Street, Qinhuai District, Nanjing, Jiangsu
- **Opening Hours:**

Pedestrian street and riverside area: Open all day

Indoor scenic spots (Dacheng Hall & Imperial Examination Museum):

9:00 AM - 10:00 PM (Last entry at 9:30 PM)

Qinhuai River cruise service: 9:00 AM - 10:00 PM, night cruise starts after 6:00 PM

- **Admission Fees:**

Fuzimiao pedestrian street and surrounding riverside area: Free entry

Dacheng Hall (Main Confucian Temple): ¥ 30 per person

China Imperial Examination Museum (Jiangnan Examination Hall): ¥ 50 per person

Combined ticket for two venues: ¥ 70 per person

Qinhuai River night cruise: ¥ 80 - 140 per person (different routes)

Free Entry: Children under 1.4 m, seniors aged 70+, active military, fire rescue personnel, and visitors with disabilities (valid ID required)

Transportation Guide:

By Metro (around 60 minutes)

- Walk approximately 1.7 km from **International Youth Convention Hotel** to **Yuan Tong Metro Station (元通)**

- Take **Metro Line 10** from **Yuan Tong Station (元通)**
- Transfer to **Metro Line 1** in **An De Men Station (安德门)**
- Get off at **San Shan Jie (三山街)**, and exit from **Exit 4**

By Taxi (around 20 minutes):

- Destination: Nanjing Confucius Temple (夫子庙)
- Estimated fare: ¥ 20 - 40



8. Qixia Mountain (栖霞山)

Reputed as "The Most Elegant Mountain of Jinling", Qixia Mountain is one of China's four top autumn foliage destinations and a millennial Buddhist sacred site with over 1,500 years of Southern Dynasties history. A famous local saying in Nanjing goes: "Niushou in Spring, Qixia in Autumn." Combining magnificent natural scenery, profound Buddhist culture, and precious historical relics, it is a year-round popular tourist spot in Nanjing.

Visiting Information

The classic non-backtracking sightseeing route is West Gate → Rainbow Mirror Lake → Qixia Temple & Sarira Pagoda → Thousand-Buddha Cliff → Peach Blossom Stream & Peach Lake → Red Leaf Valley. Visitors are suggested to reserve 3 hours for full sightseeing, and late afternoon is ideal for taking photos with soft natural light.

Essential Visitor Information

- **Address:**

No. 88 Qixia Street, Qixia District

- **Opening Hours:**

Daily: 7:00 – 17:00 (Last entry at 16:30)

Perk: Free admission for hikers entering before 7:00 AM

- **Admission Fees:**

Off-season (January-September, December excluding maple festival): ¥ 50

Peak Season (Maple Festival, October-November): ¥ 80



Transportation Guide:

By Metro + Bus (complex routes and long time travel): not recommended

By Taxi (around 50 minutes):

- Destination: the West Gate of Qixia Mountain (栖霞山西门)
- Estimated fare: ¥ 60 - 100

9. Nanjing Presidential Palace (总统府)

Officially named the China Modern History Museum, the site carries over 600 years of rich historical heritage. It sequentially served as the Prince Han's Residence in the Ming Dynasty, the Liangjiang Governor's Headquarters in the Qing Dynasty, the Heavenly King's Palace of the Taiping Heavenly Kingdom, and the Provisional Government Office of the Republic of China.

Visiting Information

The scenic area is divided into three core zones: Central Axis, West Xuyuan Garden and East Area, forming a complete chronological sightseeing route without backtracking. The Central Axis features the iconic Presidential Gatehouse, Grand Hall and Zichao Building, where the original presidential offices, archives and daily supplies are fully preserved, alongside permanent exhibitions displaying official documents, military uniforms and historical photos of the Republic of China. Visitors are recommended to allocate 2 to 3 hours for a full tour.

Essential Visitor Information:

- **Address:**

No. 292 Changjiang Road, Xuanwu District

- **Opening Hours:**

Peak Season (Mar 1 – Oct 14): 8:30 AM – 6:00 PM (Last entry 5:00 PM)

Closed every Monday

- **Admission Fees:** ¥ 35 per adult

Transportation Guide:

By Metro (around 55 minutes)

- Walk approximately 1.7 km from **International Youth Convention Hotel** to **Yuan Tong**

Metro Station (元通)

- Take **Metro Line 2** from **Yuan Tong Station**
- Get off at **Da Xing Gong (大行宫)**, and exit from **Exit 5**

By Taxi (around 30 minutes):

- Destination: Nanjing Presidential Palace (总统府)
- Estimated fare: ¥ 20 - 30



◆ Presenter Guidelines ◆

1. Oral Presentation

You must upload your presentation slides via the conference website by the day before your presentation. If you encounter any technical issues with the online upload, you may upload your slides at the Slide Center on the day before your presentation. You will **NOT** be able to present from your own computer.

Upload Schedule

Log in to the conference website (<https://ima2026.nju.edu.cn/>) and upload your slides through the “Presentation Upload” in the sidebar. If the online upload fails, please bring your slides to the on-site Slide Center. Our technicians will assist you and verify that your file displays correctly.

File Requirements

Requirement	Specification
Accepted Formats	PPT, PPTX, PDF (video files are not supported)
Maximum File Size	500 MB
File Naming	Use format: SessionNumber_ReportDate_AuthorName (e.g., 1.1_20260821_Bob.pptx)
Aspect Ratio	16:9 recommended
Fonts	Use standard fonts only (e.g., Arial). Special/custom fonts are not installed on conference computers and will not display correctly.

Presentation Tips

- Laser pointers will NOT be available. Please label diagrams, charts, and images within your slides to ensure clarity during your talk.

2. Poster Presentation

You must bring a printed copy of your poster. Conference organizers will provide tape for mounting.

Poster Specifications

Specification	Detail
Maximum Size	A0: 841 mm × 1189 mm (portrait orientation; 33.1 × 46.8 inches). Oversize posters cannot be accommodated.
Orientation	Portrait (vertical) only
Tape	Provided on-site by the conference team

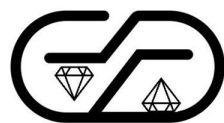
Poster Session Timeline

Time	Activity	Notes
09:00 – 12:00	Mount your poster	Put up your poster on the designated board. Volunteers will be available to assist with locating your board.
12:30 – 14:30	Attendance at poster	Stand by your poster during this period to discuss your work with attendees.
14:30 – 18:30	Remove your poster	Posters left after 18:30 will be removed and recycled, along with any poster tubes.

Reminders

- Check the conference program to confirm your assigned poster board number in advance.
- Ensure your poster is printed at the correct size before traveling to the conference venue.

Sponsors



江苏省晶彩矿物化石文化研究院

Jiangsu Jingcai Mineral and Fossil Cultural Research Institute



Jiangsu Jingcai Mineral and Fossil Cultural Research Institute (hereinafter referred to as the "Jingcai Research Institute") is a private non-enterprise unit that commenced preparatory work in 2024 and was officially approved by the civil affairs authorities at the end of 2025. The establishment of the Crystal Research Institute fills the gap in systematic research on mineral and fossil culture in Jiangsu Province, marking the transition of this field from "fragmented exploration" to a new phase of "systematic in-depth cultivation."

Headquartered in Nanjing, the Jingcai Research Institute integrates domestic and international research and cultural resources. Through scientific research and dissemination, cultural studies and promotion, and commercial development and industrialization, it strives to unlock the multifaceted value of minerals and fossils in scientific research, cultural heritage, and economic development. With mineral identification, specimen restoration, and value assessment as its three core business pillars, the Institute builds a specialized and standardized technical service system, establishing a complete development chain connecting "frontier research – public science education – industrial application." It is committed to building a high-level, internationally influential professional research institute and fostering an industrial cluster with the capacity to lead and drive the global mineral, gem, fossil, and meteorite trading market, thereby making positive contributions to Jiangsu's development as a strong province in education, science, technology, and culture, as well as to the high-quality development of the mining industry and the upgrading of cultural tourism.



中国南京(国际)矿物宝石化石博览会

China Nanjing (International) Mineral Gemstone & Fossil Expo

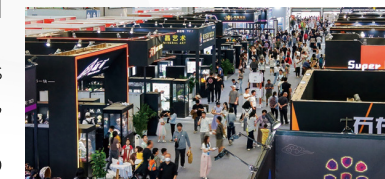
China Nanjing (International) Mineral Gemstone & Fossil Expo (hereinafter referred to as the "Nanjing Mineral Expo") is co-hosted by the View Stone Association of China and the Jiangsu Jingcai Mineral and Fossil Cultural Research Institute. It is Asia's largest and most internationally influential professional exhibition for minerals, gems, and fossils. Bringing together rare collections from around the world, the Nanjing Mineral Expo sets industry benchmarks with its utmost professionalism and serves as a core window showcasing global mineral and gemstone culture.

With stone as its medium and minerals as its bridge, the Nanjing Mineral Expo fulfills three core functions: mineral cultural exchange, geological science communication, and international industry connectivity.

Industry Benchmark: Ranked firmly as Asia's No. 1 and among the world's top three mineral, gemstone, and fossil expos, it is widely recognized as the industry's bellwether event, representing the highest display standards and industry authority in the mineral and gemstone field. In 2026, the Nanjing Mineral Expo covered an exhibition area of 65,000 m² and attracted over 210,000 visitors over five days.

High Level of Internationalization: The 2026 Nanjing Mineral Expo attracted top exhibitors from over 50 countries and regions worldwide, with overseas exhibitors accounting for over 25% of total participation, it became a vital bridge connecting Chinese and international mineral and gemstone cultures and promoting cross-border exchange.

UFI Certification: In 2025, the Nanjing Mineral Expo officially received UFI (Union of International Fairs) certification. As the most authoritative and credible accreditation in the global exhibition industry, UFI certification represents full recognition of the Expo's professionalism, internationalization, and high quality.





◆ Conference Notes ◆



