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[Sample form of Abstract Submission \(pdf\)](#)

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If you have co-author(s), please type their affiliations' names.

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 e.g. If prof. Tanaka's affiliation is ABC University, the number should be 2

\*C.A. = Communicating Author

**Abstract**

**Mineral Physics and High Pressure Mineralogy**

- 1: Phase transitions and thermodynamic modeling of minerals and rocks
- 2: Physical properties of minerals and rocks at high pressure
- 3: New applications of spectroscopy in mineral sciences
- 4: Computational study of mineral structures and properties
- 5: Mineralogy and dynamics of the mantle and core
- 6: Hydrogen, water and volatiles in the deep Earth

Select a topic.

7: Kimberlites, diamonds and mineral inclusions from the mantle

#### Structural Sciences of Minerals

- 8: Crystal structure, topology and crystal chemistry  
 9: Structure and physical properties of melts and glasses  
 10: Mechanisms and kinetics of phase transformations

#### Crystal Growth

- 11: Application of novel techniques for "in-situ" observation of crystal growth and nucleation  
 12: Texture formation and crystal growth in geosciences  
 13: Nucleation and Aggregation of macro- to nano-materials

#### Hydrothermal Process and Mineralization

- 14: Sea-floor hydrothermal systems: Present and past examples  
 15: Precious and base-metal deposits in magmatic arcs  
 16: Mineralogy of ore deposits  
 17: Fluid and melt inclusions

#### Petrologic Processes

- 18: Metamorphism under extreme P-T conditions  
 19: Subduction factory and continental evolutions  
 20: Oceanic crust and mantle processes

#### Scientific Sessions \*

#### Planetary Materials

- 21: Primitive meteorites, interplanetary dust and sample return missions  
 22: Lunar and Martian rocks, differentiated meteorites and planetary missions  
 23: Physical and chemical processes and chronology in the solar system

#### Environmental and Applied Mineralogy

- 24: Bio-Geo interface in minerals  
 25: Mineral-water interactions: from microscopic to macroscopic aspects  
 26: Environmental and medical mineralogy  
 27: Clays and zeolites: natural and synthetic materials  
 28: Crystals, ceramics and glasses with advanced physico-chemical properties  
 29: Process mineralogy

#### Mineral Heritage

- 30: Mineralogical and geological museums  
 31: New minerals and mineral classification  
 32: Natural and artificial gem materials

#### New Frontiers in Mineral Sciences

- 33: New applications of synchrotron radiation in earth and planetary sciences  
 34: Frontier applications of neutron sciences to mineralogy  
 35: Micro-chronology of minerals  
 36: Minerals relating to the origin and distribution of life in the Universe  
 37: Recent progress of nano particles studies in earth and planetary sciences

#### Preference \*

Oral Presentation

Select a presentation type.

#### Abstract title \*

Phase Transitions of Minerals

[Example Abstract \(Ms Word Document\)](#)

#### Abstract file (MS-Word file only) \*

\*All abstract, oral and poster presentations must be a maximum of 400 words for the body text (after abstract title, authors' names and affiliations.) and MS-Word file, written in English.

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