Thursday, December 3, 2026, 16:50-18:00

International Symposium on Earth Science and Technology 2026
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No.	Title	Authors
PY-01	Room and Pillar mine design and optimization for gentle dipping orebodies: A Case Study	Benedict Ncube, Hideki Shimada, Takashi Sasaoka, Akihiro Hamanaka
PY-02	Large Deformation Mechanisms and Synergistic Support of Deep Peripheral Roadways under Intense Mining Disturbance	Wang Sheng, Hideki Shimada, Takashi Sasaoka, Akihiro Hamanaka
PY-03	Stability Analysis of Remnant Pillar Recovery Adjacent to Old Fill Zone in Steeply Dipping Vein-Type Deposits	Bugunei Bat-Erdene, Takashi Sasaoka, Hideki Shimada, Akihiro Hamanaka
PY-04	A Review of Challenges Regarding Wellbore Integrity for Underground Hydrogen Storage	Bugunei Bat-Erdene, Ryota Higa
PY-05	Slope Stability Analysis for Cut-back Expansion at Hidden Valley Open-Pit Gold Mine, Papua New Guinea	Hiroto Iwai, Las Kuri, Takashi Sasaoka, Hideki Shimada, Akihiro Hamanaka
PY-06	Study on Underground Mining Design Using Room and Pillar Mining at a Zimbabwean Platinum Mine	Keigo Fukami, Benedict Ncube, Takashi Sasaoka, Akihiro Hamanaka, Hideki Shimada
PY-07	Geochemical Study of Overburden in Coal Mining PT X, East Kalimantan Province Using Static Testing on Drill Holes of Pit X	Mesias Citra Dewi, Dian Eka Aryanti
PY-08	Comparison of a Hybrid Artificial Neural Network–Random Forest Model and Ordinary Kriging for Limestone Grade Estimation: Implications for Resource Classification and Mine Planning	Roger Galois Randrianirina, Tsuyoshi Adachi
PY-09	Long-Term Stability Evaluation of CO2/N2 Mixed-Gas Ultrafine Bubbles with Ethylene Glycol Addition	Ririka Fuchimoto, Kosuke Egawa, Yuichi Sugai, Takehiro Esaki
PY-10	Syngas Production and CO_2 Adsorption in Thermally Treated Coal for Underground Coal Gasification and CO_2 Storage	Yamaguchi Shintaro, Sugai Yuichi, Esaki Takehiro, Theodora Noeli Tambaria
PY-11	Life Cycle Assessment as a Decision-Support Tool for Sustainable LNG Development: A Case Study of the Greater Sunrise Gas Field, Timor-Leste	Imaculada Dias Ferreira, Yuichi Sugai, Takehiro Esaki, Theodora Noely Tambaria
PY-12	Assessment of CO2 Fixation and Heavy-Metal Leaching Risk in Enhanced Carbonation of Copper Mine Tailings	Riku Otsuka, Fugo Nakamura, Takahiko Arima, Ilhwan Park, Tsutomu Sato
PY-13	Realized Fraction of the Enhanced-Weathering CO2 Potential in Desulfurized Tailings from a Copper Mine: Effects of Particle Size and Sulfur Recovery	Fugo Nakamura, Riku Otsuka, Takahiko Arima, Ilhwan Park, Tsutomu Sato
PY-14	Redox-coupled Transformation and Immobilization of As and Cr in Cr(VI)-loaded Fe-sludge Columns	Peiyu Liu, Ichigo Fukumoto, Naoko Okibe
PY-15	Effectiveness of Adsorption Layers in Arsenic-Bearing Road Embankments and Their Impact on the Surrounding River and Groundwater System	Kengo Nakazawa, Eriko Kikawa, Shunsuke Jikihara, Takahiro Yamamoto, Shusaku Yamazaki, Shuichi Tamoto, Takahiko Arima, Toshifumi Igarashi
PY-16	The effect of citric acid on the flotation of complex sulfide minerals under alkaline conditions	Akimasa Tozawa, Hajime Mki, Naoko Okibe, Gde Pandhe Wisnu Suyantara
PY-17	Effect of tricarboxylic acid on the selective flotation of Cu-Fe complex ore	Shiori Sakairi, Hajime Mki, Akbarshokh Ulmaszoda, Naoko Okibe, Gde Pandhe Wisnu Suyantara
PY-18	A Review on Valorization of Mine Tailings for Potential Recovery of Critical Metals: Recent Advances	Cocktail Ketshephile, Mayumi Ito, Ilhwan Park
PY-19	Effects of Different Fe Sources on Arsenic Biomineralization under Dilute Conditions	Jiang Zhao, Naoko Okibe
PY-20	Rational Design of beta-Diketone-Functionalized Macroporous Sorbents for Efficient Extraction of Lanthanum Ions	Shakhlo S. Daminova, Jaloliddin Abdurashidov, Zukhra C. Kadirova
PY-21	Phthalocyanine-Sensitized ZnO and TiO2 Composites Hybrid Photocatalysts from Industrial Spent Catalysts	Albert R. Koldarov, Mastura Kh. Aripova, Odiljon Abdurakhmonov, Zukhra C. Kadirova
PY-22	Feasibility of UAV-Based 3D Gaussian Splatting for Reconstruction in GPS-Denied Underground Environments	Adrian Fungayi Binala, Narihiro Owada, Tsuyoshi Adachi
PY-23	Cross-correlation analysis of DAS ambient noise incorporating Love wave	Eishin Oshida, Tatsunori Ikeda, Ryohei Naruse
PY-24	Country Report on Geothermal Development in Ethiopia	Gebreslasie Abraha Tesfay, Yasuhiro Fujimitsu
PY-25	Current status and key challenges of geothermal development in Djibouti	Hibo Ibrahim Mahamoud, Amin Mohamed Idriss, Yasuhiro Fujimitsu
PY-26	Geothermal Development Status and Geophysical Challenges in Ecuador	Mishel Carrión-Celi, Jimmy Cunduri, Yasuhiro Fujimitsu
PY-27	Geothermal Drilling in Tanzania Status and Challenges	Philibert Kanyagala, Godlisten Pemela, Yasuhiro Fujimitsu
PY-28	Status and development of geothermal resources in El Salvador	Mario Rivera, Yasuhiro Fujimitsu
PY-29	The Geothermal Development in Tanzania: Project Readiness and Financing	Cynthia Kuringe, Deusdedit Mahunda, Yasuhiro Fujimitsu
PY-30	Structural Controls on Alteration within a Telescoped Porphyry to Epithermal Transition System in Tirtoyudo, South Malang, East Java	Annisa Kharisma Amri, Dian Yesy Fatimah