

Contents

Agnieszka SUROWIAK, Dariusz FOSZCZ and Tomasz NIEDOBA: Optimisation of coal beneficiation in a jig in changing hydrodynamic conditions of its operation	1
Artur DYCZKO: Modeling of quality parameters of the coking coal as a process of adapting the output to the contracted parameters	11
Emad Ansari ARDEHJANI, Ramin RAFIEE and Mohammad ATA EI: The effect of the seam slopes on the strata behavior in the longwall coal mines using numerical modeling	27
Dilara TOKKAN and Bünyamin DÖNMEZ: Optimal analysis for leaching of lead from processed anode slime	40
Yuanyuan GUO, Xunjie GOU, Zeshui XU and Marinko SKARE: Carbon Pricing Mechanism for the Energy Industry: A Bibliometric Study of Optimal Pricing Policies	49
Iwona JONCZY: Phase and chemical composition of historical Zn-Pb slag from the dump in Ruda Śląska (Silesian Province, southern Poland)	70
Karol M. DĄBROWSKI, Jan BARBACKI, Szymon KUCZYŃSKI, Rafał SMULSKI and Stanisław NAGY: Estimation of Uncertainties in Determination of Natural Gas Thermodynamic Properties Based Upon In-situ Raman Analyses of Gas Mixtures	84
Vladimír KRAJČÍK: Digitalization of SMEs and their perceptions regarding public interventions and supports of digitalization: Evidence from mining and iron industries	100
Marcin GRYGIEREK, Piotr KALISZ, Magdalena ZIĘBA, Andrzej PYTLIK and Witold FRAĆ: Laboratory tests of unbound aggregate pavement base under cyclic loading and the impact of ground deformations caused by mining	117
Lucie NOVÁKOVÁ, Lenka NOVOTNÁ and Michaela PROCHÁZKOVÁ: Predicted Future Development of Imperfect Complementary Goods – Copper and Zinc Until 2030	135
Oleg KAZANIN, Andrey SIDORENKO, Sergey SIDORENKO, Vladimir IVANOV and Helmut MISCHO: High productive longwall mining of multiple gassy seams: best practice and recommendations	152
Marcin RABE, Wojciech DROŹDŹ, Katarzyna WIDERA, Agnieszka ŁOPATKA, Piotr LEŻYŃSKI, Dalia STREIMIKIENE and Yuriy BILAN: Assessment of energy storage for energy strategies development on a regional scale	163
Mihaela SIMIONESCU: The implications of emigration on the mining sector and overall economy of Romania	178
Zuzana ŠIMKOVÁ, Iwona KRZYŻEWSKA, Michaela KOŠČOVÁ and Roman DANDA: Evaluation of the connection of innovation activities within selected OECD countries in the area of Construction Minerals	190
Jun YING, Yanxin GUO, Zhangyu SHAO, Yiqi ZHANG and Ruiwu ZHANG: Study on the Social Equity Impact Path of Community Life Circle Green Space from the Perspective of Configuration	201
Oleh PIHNASTYI, Valery KHODUSOV and Anna KOTOVA: The Problem of Combined Optimal Load Flow Control of Main Conveyor Line	216



- Andrzej KOWALSKI** and **Andrzej WALENTEK**: Mining exploitation of hard coal seams by galleries and surface deformations **230**
- Sławomir MOREL**, **Magdalena SKRZYNIARZ** and **Jarosław JASIŃSKI**: The catalytic effect of plasma sprayed coatings for improved combustion of gaseous fuels **242**
- Gabriela-Alina MUREȘAN** and **Mădălin-Sebastian LUNG**: The Demographic Consequences of the Restructuring Process of Mining Industry in Romania. Case Study: The Petroșani Depression **254**
- Przemysław DEJA**, **Marcin SKÓRA**, **Krzysztof STANKIEWICZ**, **Jarosław TOKARCZYK**, **Marcin KASPRZAK**, **Zbigniew KACZMARCZYK** and **Robert HILDEBRANDT**: Wireless energy transfer system for use in underground mining **267**



© 2022 by the authors. Submitted for possible open access publication under the terms and conditions of the Creative Commons Attribution (CC BY) license (<http://creativecommons.org/licenses/by/4.0/>).