

Contents

Pavol Budaj, Jana Klencová, Alena Daňková and Jana Piteková: Economic aspects of the mining industry in the Slovak Republic	1
Michal Marcin, Martin Sisol, Ivan Brezáni and Dominika Behunová: Study on mechanical properties of alkali-activated material before and after mechanical activation	10
Andrea Sütőová, Kristína Zgodavová and Markéta Lajczyková: Evaluation of quality and effectiveness of the geological services using CEDAC Method	18
Lukáš Karch, Erika Škvareková and Artur Kawicki: Environmental and geological impact assessment within a project of the North-South Gas Interconnections in Central Eastern Europe	26
Beatrice Plešingerová, Pavol Vadász, Rastislav Kamenský, Jana Bounziová, Ján Derďák and Dávid Medved': Spent Magnesia-Carbon Refractory Bricks from Steel Production: Potentiality of MgO-Clinker Recovery	39
Štefan Markulík, Michal Cehlár and Róbert Kozel: Process approach in the mining conditions	46
Martina Zelenáková, Endre Dobos, Lucia Kováčová, János Vágo, Mohamed Abu-Hashim, Rastislav Fijko and Pavol Purcz: Flood vulnerability assessment of Bodva cross-border river basin	53
Bayram Ali Mert and Ahmet Dag: Development of GPS and GIS Based Monitoring System for Quality of the Excavated Coal	62
Piotr Tworek, Seweryn Tchórzewski and Petr Valouch: Risk Management in Coal-Mines – Methodical Proposal for Polish and Czech Hard Coal Mining Industry	72
Sergey Prokopenko, Alexey Vorobiev, Lyudmila Andreeva and Juraj Janočko: Waste Cutters Utilization in Underground Coal Mining	81
Petr Vanýsek and Vítězslav Novák: Availability of Suitable Raw Materials Determining the Prospect for Energy Storage Systems Based on Redox Flow Batteries	90
Abderrazak Dhaoui, Dalia Streimikiene, Youssef Saidi, Syed Jawad Hussain Shahzad, Nanthakumar Loganathan and Abbas Mardani: Exploring the Oil Supply-Demand Shocks and Stock market Stabilities: Experience from OECD Countries	100