

Table of Contents

Effect of Pozzolanic Properties of Waste-Paper Pulp Ash in High Performance Concrete M.A. Anifowose, S.O. Odeyemi, O.S. Olabisi and K. Mustapha	1
Mechanical Properties of Sustainable Concrete Incorporating Steel-Binding Wire Wastes N. Bourmatte, M. Boutlikht, A. Douadi, A. Messai, B. Lamiri, C. Belebchouche and K. Hebbache	17
Taguchi-Based Analysis of EPAC Constituents Affecting Natural Self-Healing in Non-Structural Concrete Y. Abdellaoui, N. Laaroussi, M. Ouakrouch, A. Rahmani and A. Khaldoun	35
Exponential Models of Concrete Block Produced with Coconut Shell and Coconut Shell-Ash for Strength Characterization and Structural Stability T.E. Okeke, F.O. Okafor and M.E. Onyia	53
Thermal and Mechanical Performance of Innovative Solid Olive Waste Composite for Use as Insulating Materials in Building S. Medhioub, A. Ellouze, R. Shabou and H. Sabeur	79
Real-Time Thermodynamic Analysis of Gas Turbines in Combined Cycle Power Plants D. Azzouzi, M. Moderres and S. Zafar	99
Energy Efficiency Optimization of Motor-Driven Pump Systems: A Case Study in a Moroccan Manufacturing Plant K. Ibn Batouta, S. Aouhassi and k. Mansouri	117
Long Short-Term Memory-Autoencoder Model for Intelligent Oil-and-Gas Pipeline Anomaly Detection O.A. Dolire, A.A. Eteng and S.I. Orekwue	141
Comparative Analysis of P&O and Fuzzy Logic MPPT Techniques for Photovoltaic Systems under Standard and Partial Shading Conditions Using DC-DC Converters F. Id Ouissaaden, S. Dlimi, H. Kamel, A. Mohssin and K. Abdelaziz	159