

## Table of Contents

<b>Study on Diffusion Characteristics of Liquid Water in Gas Diffusion Layer by Lattice Boltzmann Method</b> S.Z. Ji, Z. Song and Y. He	1
<b>Thermal Inertia Performance via TRNSYS Software of Recycled Wastewater Treatment Plant Sludge as a Construction Material Additive to Ecological Lightweight Earth Bricks</b> G. El Hajoui, I. Manssouri, T. Manssouri, H. Sahbi and H. Limami	17
<b>Evaluation of the Performance of Fiber-Reinforced Mortars Based on Dredged Sludge</b> S. Mohamed, B. Amar, A. Li, T. Boubekeur, A. Ashour and C. Said	31
<b>Mechanical Behavior Analysis of Lightweight Concrete Reinforced by Metalized Plastic Waste Fibers</b> M. Chakhari, N. Salem, R. Idir and J. Neji	45
<b>Comprehensive Study on Mechanical and Transport Properties of Roller-Compacted Concrete Incorporating Reclaimed Asphalt Pavement</b> I. Boussetta, S. El Euch Khay and J. Neji	61
<b>Modeling Stress Concentration Factors for Fatigue Design of KT-Joints Subjected to In-Plane Bending Loads Using Artificial Neural Networks</b> M. Iqbal, S. Karuppanan, V. Perumal, M. Ovinis, M. Faizan, A. Rasul and M. Iqbal	79
<b>Fuzzy Model Based Model Predictive Control for Biomass Boiler</b> G.A. Nibiret and A.T. Kassie	93
<b>Iterative LMI-Tuned PID Controller for Robust Decentralized Multi-Area Automatic Generation Control in Deregulated Electricity Markets</b> P.A. Gbadega and Y.X. Sun	109
<b>CNN-LSTM is all you Need for Efficient Resource Allocation in Cloud Computing</b> M. Aboubakar, Y. Titouche, M. Fernandes, A.A. Abba Ari and M.S. Rahman	141