

Table of Contents

Characterization of <i>Amuda-Isuochi</i> Nigerian Clay Deposit for Potential Industrial Applications	
N. Uwaezuoke, V. Okoro, K.C. Igwilo, S.I. Onwukwe, K.C. Iwuanyanwu and V.C. Ayogu	1
Spark Plasma Sintering of Dinickel Boride Reinforced Titanium Matrix Composites	
O.O. Ayodele and P.A. Olubambi	19
Prediction of the Hardness of Pulverized Glass Waste-Reinforced Aluminium Alloy 6061-T6 Friction Stir Welded Joint	
T.E. Abioye, E. Olanipekun and A.S. Anasyida	31
Effects of Waste Glass Powder on Properties of Self-Compacting Repair Mortars	
A. Benyahia, M. Salhi and T. Boubekeur	43
Experimental Study on the Behaviour of Short Columns Confined by Waste Plastic Bags-Epoxy Composites	
S. Shahzad, R. Hameed, S.A.A. Gillani, M.R. Riaz, U. Hameed and K. Gulzar	57
Static and Dynamic Analysis of Keddara Dam	
S. Chebout and R. Bahar	71
Selection of a Pavement Structure from Technically Established Alternatives Based on Construction Cost, Energy Consumption, and Carbon Footprint	
W. Taktak and A. Loulizi	85
Combined Thermal Performance Enhancement of Parabolic Trough Collectors Using Alumina Nanoparticles and Internal Fins	
M.H. Yehia, M.A. Hassan, N. Abed, A. Khalil and N. Bailek	107
Damping Subsynchronous Oscillations Using a High Voltage Direct Current-Based Multi-Modal Damping Controller	
C.B. Tambwe and R.P. Carpanen	133
A Low-Cost Control Architecture for Buck Converter Fed VSI Based BLDC Motor Drive	
M. Kurre, S. Deshmukh, R. Tandekar, P. Mishra and A. Banerjee	161
Pilot Implementation of Innovative Proposal for Service Level Improvement in a Spare Parts Trading Company	
E. Ramos-Valle, A. Paulino, P. Chavez, J.C. Alvarez and S. Nallusamy	173