

Table of Contents

Porous Silicon Antireflection Coating for Solar Cells Using Chemical Etching in HF-FeCl₃-H₂O R. Chaoui, B. Mahmoudi and Y. Si Ahmed	1
Loading Rate Sensitivity of the Essential Work of Fracture, a Case Study on Pure Polypropylene S. Pirsalami, S.M. Zebarjad and Z. Zeinali	7
Fatigue Life Prediction under Variable Loading Based a Non-Linear Energy Model A. Djebli, B. Mostefa and A. Abdelkarim	14
Soret and Dufour Effects on MHD Boundary Layer Flow Past a Stretching Plate B. Nagabhushnam Reddy, S.V.K. Varma and B.R. Kumar	22
Use of Thermoplastic Polymer in Mortar Composites to Improve its Chloride Penetration Resistance M. Omrane, A.S. Benosman, M. Mouli and Y. Senhadji	33
Effect of Anodic and Cathodic Chloride Contents on the Macrocell Corrosion and Polarization Behavior of Reinforcing Steel Z.L. Cao, H.Y. Chen, L.Y. Wei and M. Hibino	45
Suitability of <i>Cordia millenii</i> Ash Blended Cement in Concrete Production O.E. Babalola and P.O. Awoyera	59
Evaluation of Leachate Characteristics from Different Leachate Ponds in a Semi-Aerobic Landfill E. Olisa, N. Sapari, A. Malakahmad, E.H. Ezechi, A. Riahi, I.U. Salihi and K.U. Orji	68
Optimization of Process Parameters in EDM Using Taguchi Method with Grey Relational Analysis and Topsis for Ceramic Composites M. Kalayarasan and M. Murali	83
A Novel MCDM Approach for Simultaneous Optimization of some Correlated Machining Parameters in Turning of CP-Titanium Grade 2 A. Khan and K.P. Maity	94
Analysis of MRR and TWR on OHNS Die Steel with Different Electrodes Using Electrical Discharge Machining S. Nallusamy	112
Design of PnPSat Protocol and its Implementation on CAN Bus J. Chen, M.F. Ning, S.J. Zhang and G.D. Xu	121
Analysis of Double Layer Cross Strips with Chiral Configuration Exhibiting Negative Refractive Index T. Rahim and J.D. Xu	128
Data Compression Analysis of Rocket Engines with Vector Quantization Based on FCM Algorithm D. Sobyra	135
Performance Improvement of Data Analysis of IoT Applications Using Re-Storm in Big Data Stream Computing Platform P. Rizwan and M.R. Babu	141
Classifying Spam Emails Using Artificial Intelligent Techniques S.S. Roy and V.M. Viswanatham	152
Container Ports Throughput Analysis: A Comparative Evaluation of China and Five West African Countries' Seaports Efficiencies E. Tetteh, H.L. Yang and F. Gomina Mama	162
Role of Production Part Approval Process in Continuous Quality Improvement and Customer Satisfaction J. Doshi and D. Desai	174
A Proposed Model for Sustaining Quality Assurance Using TQM Practices in Small and Medium Scale Industries S. Nallusamy	184