

Table of Contents

Room Temperature NO₂ Gas Sensor Based on Functionalized Carbon Nanotubes /Nickel Oxide Nanoparticles S.K. Abbas and A.N. Naje	1
Physico-Chemical Properties of Nano ZrO₂-Pillared Bentonite with Nickel as Supporting Metal M. Mirzan, A. Syoufian and K. Wijaya	9
Hybrid Structure of Organic-Inorganic Photovoltaic Fast Carrier Transport M.T. Hussein and F.A. Senaed	19
Investigation on Mechanical, Thermal and Bonding Properties of MWCNTs Reinforced Aramid/Epoxy Composite N.K. Konada, K.N.S. Suman, R. Bammidi and B.B.A. Kumar	27
The Impact of Nanomaterials on Fabrication Silicon Solar Cells by Pulsed Laser Deposition S.A. Farman, M.K. Ibrahim and K. Aadim	41
Abrasion Depth-Mechanical Properties Relations of Low-Cost PVA Engineered Cementitious Composites N.S. Ayoob, Y.H. Daek, A.N. Hilo and S.R. Abid	55
Water Impact-Abrasion Erosion of Hybrid Fiber-Reinforced High Performance Concrete S.H. Ali, N.S. Ayoob, M.L.A. Hussein and S.R. Abid	63
Tensile and Flexural Properties of Untreated Sisal Fibers Reinforced Unsaturated Polyester Resin Composites S.C.C. de Souza, I.C.B. Vieira, I.F. Barbosa, N.F.T.G. Leão, A.C.B. Zancanella, R. Maziero, B.D. de Castro and J.C.C. Rubio	73
Fabrication and Characterization Biomimetic Micro Actuators Using Ferrofluid-Silicone Composite Cantilevers S.S. Deshmukh and P.V. Pillai	79
Effect of Sisal Fiber-Snail Shell Hybrid Reinforcement on some Mechanical Properties and Moisture Uptake of Unsaturated Polyester Resin Based Composites I.O. Oladele, O.T. Betiku, J.G. Akinseye and B.A. Makinde-Isola	87