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Improvement; Estimation of Li-Ion Diffusion Coefficients in C60 Coated Si Thin Film Anodes Using Electrochemical Techniques; Synthesis and Characterization of the Gold-SiO2 Core-Shell Nanoparticle on the X-Nanozeoliate Used for Immobilization of the Alkaline Protease Enzyme; The Kinetic Monte Carlo Simulations of the Self-Diffusivity in Zeolites
Comparison of Elastic Constant for Borassus flabellifier in the Longitudinal and Perpendicular Direction of Fibres with FrequencyThe Principles of Processing Siderite Ores with a High Magnesium Oxide Content; Closed Form Solutions to Nonlinear Heat Conduction Problems; Three-Dimensional Diffusion in Arbitrary Domain Using Generalized Coordinates for the Boundary Condition of the First Kind: Application in Drying; Thermodynamics of Defect Formation and Hydration of Y2O3; Prediction of Effective Heat Storage Coefficient of Multi-Phase Materials
Effect of TiC Particles Volume Fraction on the Mutual Diffusion of Al and Mg during Fabrication of Al-4.5wt%Mg/TiC via Mechanical Alloying ProcessPhase Transformation and Thermoelectric Properties of In0.25Co4-xNixSb12 Skutterudites; Improvement of Surface Quality and Parts Functional Ability by Vibro-Mechanical Consolidation Treatment and Finishing; Applying Computational Analysis in Studies of Resin Transfer Moulding; Mass Transfer of God Particle or Higgs Boson; Study of Diffusion and Water Vapor Permeability in Chitosan Films and Chitosan Emulsified Films
The Meshfree Finite Element Method for Fluids with Large Deformations

Sommario/riassunto

This special issue of Defect and Diffusion Forum contains selected refereed papers which were presented at the 7th International Conference on Diffusion in Solids and Liquids (DSL-2011) held on the 26 to 30th June 2011 at the Hilton Vilamoura, Algarve, Portugal. The goal of the conference was to provide a unique opportunity to exchange information, to present the latest results and review burning issues in contemporary diffusion research. Young scientists were especially encouraged to attend the conference and to establish international links with established scientists.