

TABLE OF CONTENTS

Volume 3 Number 4

October 2013

Electrospinning of Gelatin Functionalized with Silver Nanoparticles for Nanofiber Fabrication M. A. Oraby, A. I. Waley, A. I. El-Dewany, E. A. Saad, B. M. A. El-Hady.....	95
Modeling and Simulation of Laser Assisted Turning of Hard Steels O. Abdulghani, M. Sobih, A. Youssef, A.-M. El-Batahgy.....	106
A Kind of Improved Susceptible-Infected Model Q. Q. Zhu, M. Liu, Q. Z. Yu, Z. M. Wang.....	114
Simulation of Graphene Piezoresistivity Based on Density Functional Calculations M. Gamil, K. Nakamura, A. M. R. F. El-Bab, O. Tabata, A. A. El-Moneim.....	117
One Dimensional Modeling of the Shape Memory Effect B. Meddour, H. Zedira, H. Djebaili.....	124
The Feature-Based a New Object Coding Approach for Prismatic Parts at the Part Modeling I. Celik A. Unuvar.....	129
The Correctional Model of Population Development Equation M. Liu, D. Q. Liao, Q. Q. Zhu, Z. M. Wang.....	139
The Improvements of the Backhoe-Loader Arms A. Erklig, E. Yeter.....	142
The Mechanism of Formation of Glass-Ionomer Cement: A Theoretical Study J. Gaviria, C. G. García, E. Vélez, J. Quijano.....	149
Numerical Simulation of Stress-Strain State for Nonhomogeneous Shell-Type Structures Based on the Finite Element Method E. L. Hart, V. S. Hudramovich, S. A. Ryabokon, E. V. Samarskaya.....	155
Metal Hexaborides with Sc, Ti or Mn I. D. R. Mackinnon, J. A. Alarco, P. C. Talbot.....	158
Behavioural Modelling of Lips Seal Made with Polytetrafluoroethylene Enriched by Glass Fibers A. Djeffal, S. E. Bendaoudi, M. Bounazef, E. A. Adda Bedia.....	170

The figure on the front cover is from the article published in Modeling and Numerical Simulation of Material Science, 2013, Vol. 3, No. 4, pp. 106-113 by Omar Abdulghani, *et al.*