

CONTENTS

F. Ghasemi, A. Naghizadeh, G. A. M. Ali, V. K. Gupta, Shilpi Agarwal, B. Mansouri, Evaluation of sonocatalytic degradation of phenol in the presence of zirconium oxide and cerium oxide nanocatalysts	127
J. M. Veličković, S. D. Stevanović, M. Lutovac, The effect of effluent on the water quality in the Nišava	134
M. Thirumalaikumar, Green corrosion inhibitors in various corroding media	142
M. K. Dutta, R. K. Sarkar, S. Karmakar, Fabrication and characterization of CdS-Cu ₂ S thin film heterojunction diode using chemical bath deposition technique	158
R. K. Yaghoobi, Masoud Khajenoori, Maryam Khajenoori, Modeling and simulating of heat transfer for three-layer skin using an external thermal pulse	163
K. Fattahi, M. Farahi, B. Karami, R. Keshavarz, Design of sodium carbonate functionalized TiO ₂ -coated Fe ₃ O ₄ nanoparticles as a new heterogeneous catalyst for pyrrole synthesis	174
M. K. Mladenov, Potential of municipal solid waste generated in Bulgaria for energy production	180
A. Sudan, A. Kaur, D. Gangacharyulu, R. K. Gupta, Experimental and modelling studies of hydrogen generation from NaBH ₄ /Al ₂ O ₃ nanoparticles/H ₂ O system with CoCl ₂ as a catalyst	188
Y. Mezari, L. Nouar, F. Madi, A. Guendouzi, I. Djellala, I. Lafifi, R. Merdes, A. Bouhadiba, B. Houari, Theoretical investigation of inclusion complex of 2-methyl mercapto phenothiazine with hydroxy propyl β-cyclodextrin by DFT approaches	196
S. M. Arat, B. Çamur-Elipek, B. Öterler, Heavy metal accumulation of water, sediment and some organisms in the Marmara Sea (Turkey).....	211
D. I. Ivanova, Surface treatment of electro galvanized steel in modified zinc phosphating solutions	216
S. S. Stanimirov, B. R. Todorov, Simplified synthetic procedure for (Z) to (E)-cyclooct-4-enol photoisomerization	228
I. Ignatov, G. Gluhchev, N. Neshev, D. Mehandjiev, Structuring of water clusters depending on the energy of hydrogen bonds in electrochemically activated waters Anolyte and Catholyte	234
N. T. Kochev, S. H. Tsoneva, M. V. Frenkeva, N. G. Jeliazkova, Prediction of ¹ H-NMR shifts with Ambit-HNMR software	240
V. F. Georgiev, Preparation and thermal stability evaluation of GNP/CNT doped poly(lactic acid) and high-density polyethylene nanocomposites	249
INSTRUCTIONS TO AUTHORS.....	256