

## Contents

*Srećko Stopić, Bernd Friedrich*

- SYNTHESIS OF NANOSIZED METALLIC AND CORE-SHELL PARTICLES  
BY ULTRASONIC SPRAY PYROLYSIS ..... 111–120

*Zoran P. Popović, Tatjana Vuković, Božidar Nikolić, Milan Damnjanović, Ivanka Milošević*

- CURRENT DISTRIBUTION DEPENDENCE ON ELECTRIC FIELD IN HELICALLY  
COILED CARBON NANOTUBES ..... 121–127

*Alexandar Djordjević, Svetislav Savović, Aco Janićijević*

- FINITE DIFFERENCE SOLUTION OF TWO-DIMENSIONAL SOLUTE TRANSPORT  
WITH PERIODIC FLOW IN HOMOGENOUS POROUS MEDIA ..... 128–136

*Milan Pantić, Nemanja Micić, Milica Pavkov Hrvojević, Slobodan Radošević, Petar Mali*

- INFLUENCE OF ANISOTROPY AND MAGNETIC FIELD ON THERMAL ENTANGLEMENT  
IN HEISENBERG MODEL AND THERMODYNAMIC ANALYSIS OF MODEL ..... 137–143

*Svetlana Stevović, Neđo Đurić, Sladana Mirjanić*

- CONTEMPORARY METHODS OF ARTIFICIAL INTELLIGENCE IN THE FUNCTION  
OF WATER RESOURCES MANAGEMENT ..... 144–156

*Vladan Mićić, Milojka Jokić, Milovan Jotanović, Ivan Ristić, Suzana Cakić,*

*Tamara Erceg, Jaroslava Budinski Simendić*

- THE INFLUENCE OF BIOBASED CHAIN EXTENDER ON THE POLYURETHANE  
PROPERTIES ..... 157–163

*Irena Kasagić Vučanović, Darija Knežević, Nina Vukičević*

- STRESS DEGRADATION OF LISINOPRIL DIHYDRATE IN DIFFERENT  
AQUEOUS MEDIA ..... 164–171

*Marijana Arapović Savić, Mihajlo Savić, Adriana Arbutina,*

*Mirjana Umičević Davidović, Vladan Mirjanić*

- A SYSTEM FOR MEASUREMENTS OF 3D SCANNED ORTHODONTIC  
STUDY MODELS ..... 172–179

*Adriaan S. Luyt, Ernie H.G. Langner, Duško Dudić*

- DIELECTRIC SENSITIZATION OF ZEOLITIC IMIDAZOLATE  
FRAMEWORK-8 (ZIF-8) NANOPOWDER ..... 180–183

*Dušan Ješić, Pavel Kovač, Dragan Rodić, Borislav Savković, Dražen Sarjanović*

- FUZZY MODELING OF TEMPERING PROCESS OF CAST STEEL ..... 184–189

*Biljana Maksimović, Branislava Misailović, Mićo Mitrović, Andrijana Žekić*

- GROWTH MECHANISM OF KDP CRYSTALS FROM AQUEOUS SOLUTIONS ..... 190–195

*Slobodan Obradović, Borivoje Milošević, Nikola Davidović*

- MAGNETORESISTIVE RANDOM ACCESS MEMORY ..... 196–206

- Instruction for authors of papers ..... 207–208