

CONTENTS

Supercritical Fractionation of Volatiles and Non-volatiles from Different Plant Sources <i>Ing. Martin Topiař</i>	7
Mathematical Model for Pressurized Solvent Extraction from <i>Leuzea carthamoides</i> <i>Ing. Zdeňka Machalová</i>	9
Adsorption of Phenol from Aqueous Solution on Various Sorbents <i>Ing. Martina Matějková</i>	11
Preparation of Nanocrystalline Titania Thin Films by Using Pure and Modified Supercritical Carbon Dioxide <i>Ing. Marie Cerhová</i>	12
Physicochemical Properties of Menthol-Based Imidazolium Ionic Liquids <i>Ing. Adéla Andresová</i>	14
Influence of Structure of Ionic Liquids on the Properties of their Mixtures with Water <i>Ing. Jan Rotrekl</i>	16
Analytical Features of the Optical Biosensor for Glucose Detection <i>Mgr. Lucie Maixnerová</i>	18
Novel NMR Method for Organic Aerosol Analysis <i>Ing. Štěpán Horník</i>	20
Combustion of Corn Straw in a Fluidized-Bed Reactor <i>Ing. Tomáš Durda</i>	22
Possibilities of High-Temperature Desulphurization and Dechlorination of a Producer Gas <i>Ing. Jiří Brynda</i>	24
Design of Apparatus for Testing of Catalytic Filters for Flue Gas Treatment <i>Ing. Boleslav Zach</i>	26
Comparison of Summer and Winter Highly Time-Resolved Submicron Aerosol Composition Measured at a Suburban Site in Prague <i>Ing. Lucie Kubelová</i>	28
Source Apportionment of Submicron Particles Deposited in Regional Lung Measured at an Urban Background Site in London <i>Tuan V. Vu, MSc.</i>	30

Synthesis of Aza-Aromatic Compounds by Photocyclodehydrogenation Reaction of <i>N</i> -Aryl Imines	
<i>Ing. Martin Kos</i>	32
Preparation of soluble [<i>n</i>]phenacene derivatives	
<i>Ing. Pavel Jakubík</i>	33
Progress in Helicene Stationary Phases	
<i>Ing. Martin Bernard</i>	34