

<b>Contents</b>	<b>Page</b>
<u>Elena Ferapontova:</u> Electric Field Effects on Interfacial Behaviour of Surface-Tethered DNA	11
<u>Michal Hocek:</u> Polymerase Synthesis of Base-Modified DNA. From Redox Labelling to Chemical Biology	12
<u>Luděk Havran, Jan Špaček, and Miroslav Fojta:</u> 7-Deazapurines a New Targets for Redox Active DNA Labelling	13
<u>Ján Labuda, Lenka Hlavatá, Viktor Gajdoš, and Lucia Šteffelová:</u> DNA Biosensors with Protective Outer-Sphere Membranes	14
<u>Shinobu Sato, Yuki Hori, Mana Hayakawa, Masaaki Kodama, Tatsuji Nishihara, Kazuhiro Tomonaga, and Shigeori Takenaka:</u> Development of Electrochemical Telomerase Assay Using Ferrocenyl Naphthalene Diimide Derivatives	15
<u>Rui Campos, Alexander Kotlyar, and Elena E. Ferapontova:</u> DNA Biosensor Exploiting Direct DNA Immobilization onto Gold via Phosphorothioated dA Tags	16
<u>László Kékedy-Nagy, Rui Campos, and Elena Ferapontova:</u> Electroanalysis of Modes of Methylene Blue Binding to Gold-Tethered DNA	17
<u>Jan Špaček, Luděk Havran, and Miroslav Fojta:</u> Oxidation of Long DNA Homopolymer Tails on Graphite Electrodes	18
<u>Richard P. Bowater:</u> Biophysical Chemistry Studies of Protein-Nucleic Acid Interactions	19
<u>Miroslav Fojta:</u> Electrochemical methods for the detection of DNA-protein interactions	20
<u>Emil Paleček, Hana Černocká, Veronika Ostatná, Lucie Navrátilová, and Marie Brázdová:</u> Sensing of Tumor Suppressor Protein p53-DNA Complex at an Electrified Interface	21
<u>Shinobu Sato and Shigeori Takenaka:</u> Detection of Nucleic Acid or its Related Enzyme Based on Ferrocenyl Ligands	22
<u>Gerd-Uwe Flechsig:</u> New Materials and Nanostructures for Heated Electrochemical Sensors	23
<u>Miroslav Gál, Ján Krahulec, Kristína Jiríčková, and Ján Híveš:</u> Characterization of Catalytic Properties of Human Eneteropeptidase by Electrochemical Methods	24
<u>Mirela Enache, Mihai Anastasescu, Geanina Dobrescu, Catalin Negrila, Mihai F. Lazarescu, and Valentina Lazarescu:</u> SDS influence on the surface states and field effects of n-GaAs(100) electrodes Influence on the Surface States and Field Effects of n-GaAs(100)	25
<u>Anastasios Economou, Christos Kokkinos, S. Kakabakos, and Panagiota Petrou:</u> Microfabricated Electrochemical Sensors for DNA and Protein Assays Using Nanoparticle Labels	27
<u>Veronika Ostatná, Hana Černocká, Veronika Vargová, and Emil Paleček:</u> Changes in Protein Structure as Detected by Electrochemical Analysis	28

<i>Hana Černocká, Veronika Ostatná, and Emil Paleček:</i> Catalytic Hydrogen Evolution of Native and Denatured Proteins at Mercury and Amalgam Electrodes	29
<i>Veronika Vargová, Veronika Ostatná, Vlastimil Dorčák, and Emil Paleček:</i> Electrocatalysis in Polyamino Acids and Hexapeptides	30
<i>Viliam Kolivoška, Veerabhadrarao Kaliginedi, Diego Roldan, Miklos Mohos, Simon Rohrbach, Koji Yoshida, Ilya Pobelov, Wenjing Hong, Michal Valášek, Magdaléna Hromadová, Romana Sokolová, Christophe Bucher, Guy Royal, Saioa Cobo, Thomas Wandlowski:</i> Force and Conductance Measurements in Molecular Electronics	31
<i>Paula Lopes, Meng Xu, Min Zhang, Ting Zhou, Yanlian Yang, Chen Wang, and Elena E. Ferapontova:</i> Direct Electrochemical and AFM Detection of Amyloid- $\beta$ Peptide Aggregation on Basal Plane HOPG	32
<i>Jakub Opršal, Miloslav Pouzar, Petr Knotek, Renáta Petránková, and Ladislav Novotný:</i> Some Aspects of Toxicity of Silver Nanoparticles	33
<i>Jana Drbohlavová, Radim Hrdý, Kateřina Přikrylová, Matej Dzuro, and Jaromír Hubálek:</i> Gold Nanostructured Surface for Electrochemical Sensing and Biosensing: Does Shape Matter?	34
<i>Petra Majzlíková, Jan Prášek, and Jaromír Hubálek:</i> Comparison of Working Electrode Materials for Direct Glucose Oxidation	35
<i>Hana Kynclová, Petra Majzliková, Jan Prásek, Tomas Lednický, Radim Hrdý, and Jaromír Hubálek:</i> Production and Study of Nanoporous Alumina Membranes by Electrochemical Methods	36
<i>Włodzimierz Kutner:</i> Supramolecular Complexation of Biorelevant Analytes by Functional Electroactive Monomers of Thiophene Derivatives for Preparation of Molecularly Imprinted Polymer Films as Recognition Units of Chemical Sensors	38
<i>Joel Donkeng Dazie and Jiří Ludvík:</i> Electrochemical and Spectrophotometric Study of the hydration of Orthophthalaldehyde and its Reaction with Simple Amines	39
<i>Kristýna Kantnerová and Jiří Ludvík:</i> Electrochemical and Spectrophotometric Study of the Reactivity of Orthophthalaldehyde with Amino Acids	40
<i>Guzel Ziyatdinova, Endzhe Ziganshina, and Herman Budnikov:</i> Electroanalysis of Antioxidants in Surfactant Micellar Media	41
<i>Andrey S. Mendkovich, Darya V. Ranchina, Mikhail A. Syroeshkin, Mikhail N. Mikhailov, Mikhail N. Elinson, Vadim P. Gul'tyai, and Alexander I. Rusakov:</i> Electron Transfer Initiated Bond Cleavage. Beyond the ECE	42
<i>Tomáš Mikysek, Jiří Ludvík, and Karel Vytřas:</i> Electrochemical Study of New Triazaborine Based Compounds	43
<i>Jana Kocábová, Romana Sokolová, Jan Fiedler and Ilaria Degano:</i> Oxidation of Bioactive Flavonoid Taxifolin in Nonaqueous Media	44

<i>Štěpánka Lachmanová, Magdaléna Hromadová, Lubomír Pospíšil, Jérôme Fortage, Grégory Dupeyre, Christian Perruchot, Ilaria Ciofini, Philippe P. Lainé:</i> Structure-redox Reactivity Relationship in a Series of Extended Pyridinium Compounds	45
<i>Cristina Ariño, José Manuel Díaz-Cruz, and Miquel Esteban:</i> How electroanalytical Techniques Can Be Used in Complexation Studies of Heavy Metals with Biomolecules	46
<i>Ivana Šestáková, Bohdan Josypčuk, and Tomáš Navrátil:</i> Behavior of Metallothioneins, their Fragment and Phytochelatin at Mercury and Amalgam Electrodes	47
<i>Tomáš Navrátil, Kateřina Nováková, Ivana Šestáková, Jan Langmaier, Jaromíra Chýlková, and Vladimír Mareček:</i> Transport of Biochemically Important Ions and Compounds across Biomimetic Membranes	48
<i>Phuong Le, Hana Vodickova, Brigita Zamecnikova, and Jaromir Lachman:</i> Optimization the Cell Wall Degrading Enzymes and Technique for Isolation of Protoplasts in Potato	49
<i>Phuong Le, Brigita Zamecnikova, Hana Vodickova, and Jaromir Lachman:</i> Preparation of Plant Material for the Study of Membranes by Electrochemical Methods	50
<i>Věra Mansfeldová, Pavel Janda, and Hana Tarábková:</i> Biomimetic Electroanalytical Potentiometric Sensing System Utilizing Interface of Two Immiscible Electrolytes	51
<i>Šárka Ramešová, Romana Sokolová, and Ilaria Degano:</i> Electrochemical Study of Fisetin	52
<i>Chiara Tiribilli, Romana Sokolová, Stefania Giannarelli, Michal Valášek:</i> On the Oxidation of Drug Diflunisal in Non-aqueous Media	53
<i>Renáta Šelešovská, Lenka Bandžuchová, and Miroslav Chalupník:</i> Green Electrochemical Sensors Based on Boron Doped Diamond and Silver Amalgam for Sensitive Voltammetric Determination of Antineoplastic Agent Methotrexate	54
<i>Jan Langmaier and Zdeněk Samec:</i> Voltammetric Study of Ion and Electron Transfer from Water to Highly Hydrophobic Ionic Liquids: Electroanalytical Aspects	55
<i>Kateřina Nováková, Tomáš Navrátil, Vojtěch Hrdlička, Vlastimil Vyskočil, Jiří Barek, and Jaromíra Chýlková:</i> Determination of 5-Nitroindazole using Silver Solid Amalgam Electrode	56