

ISSN 0235-7216

LITHUANIAN ACADEMY OF SCIENCES
LIETUVOS MOKSLŲ AKADEMIJA



Chemija

Chemistry

2011 Vol. 22 No. 4

LIETUVOS MOKSLŲ AKADEMIJA
VILNIUS – 2011

Editorial Board

Editor-in-Chief

Prof. Dr. Habil. **Albertas MALINAUSKAS**
Institute of Chemistry of Center for
Physical Sciences and Technology
A. Goštauto 9, LT-01108 Vilnius
Tel. (+370 5) 264 92 14
E-mail: albertas.malinauskas@chi.lt

Executive Secretary

Dr. **Aldona JAGMINIENĖ**
Institute of Chemistry of Center for
Physical Sciences and Technology
A. Goštauto 9, LT-01108 Vilnius
Tel. (+370 5) 264 93 62
E-mail: aldonaj@ktl.mii.lt

Associate Editors

Prof. Dr. Habil. **Aivaras KAREIVA**
Vilnius University (*inorganic chemistry*)
Prof. Dr. Habil. **Eugenijus NORKUS**
Institute of Chemistry of Center for
Physical Sciences and Technology (*physical
chemistry and analytical chemistry*)

Members

Prof. Dr. Habil. **Zigmuntas BERESNEVIČIUS**, Kaunas University of Technology (*organic chemistry*)
Prof. Dr. Habil. **Eugenijus BUTKUS**, Vilnius University (*organic chemistry*)
Prof. Dr. Habil. **Vitas DAUKŠAS**, Vilnius University (*organic chemistry*)
Prof. Dr. Habil. **Juozas Vidas GRAŽULEVIČIUS**, Kaunas University of Technology (*polymer chemistry*)
Prof. Dr. Habil. **Vitalijus JANICKIS**, Kaunas University of Technology (*inorganic chemistry*)
Dr. Habil. **Remigijus JUŠKĖNAS**, Institute of Chemistry of Center for Physical Sciences and Technology (*structural chemistry*)
Prof. Dr. Habil. **Eimutis JUZELIŪNAS**, Institute of Chemistry of Center for Physical Sciences and Technology (*electrochemistry*)
Prof. Dr. Habil. **Valdas LAURINAVIČIUS**, Vilnius University Institute of Biochemistry (*bioorganic chemistry*)
Prof. Dr. Habil. **Ričardas MAKUŠKA**, Vilnius University (*polymer chemistry*)
Dr. Habil. **Gediminas NIAURA**, Institute of Chemistry of Center for Physical Sciences and Technology (*physical chemistry*)
Prof. Dr. Habil. **Audrius PADARAUSKAS**, Vilnius University (*analytical chemistry*)
Dr. Habil. **Rimas RAMANAUSKAS**, Institute of Chemistry of Center for Physical Sciences and Technology (*electrochemistry*)
Prof. Dr. Habil. **Arūnas RAMANAVIČIUS**, Vilnius University (*analytical chemistry*)
Prof. Dr. Habil. **Liūda RASTEIKIENĖ**, Vilnius University Institute of Biochemistry (*organic chemistry*)
Prof. Dr. Habil. **Valdemaras RAZUMAS**, Vilnius University Institute of Biochemistry (*bioorganic chemistry*)
Prof. Dr. Habil. **Algirdas ŠAČKUS**, Kaunas University of Technology (*organic chemistry*)
Prof. Dr. Habil. **Sigitas TUMKEVIČIUS**, Vilnius University (*organic chemistry*)
Doc. Dr. **Gintaras VALINČIUS**, Vilnius University Institute of Biochemistry (*physical chemistry and electrochemistry*)
Prof. Dr. Habil. **Algirdas ŽEMAITAITIS**, Kaunas University of Technology (*polymer chemistry*)

International Advisory Board

Prof. Dr. **Debbie C. CRANS**, Colorado State University, Fort Collins, Colorado, USA
Dr. Habil. **Zenonas JUSYS**, Universität Ulm, Ulm, Germany
Prof. Dr. **Klaus-Michael JÜTTNER**, Karl-Winnacker-Institut der DECHEMA e.V., Frankfurt-am-Main, Germany
Prof. Dr. **Kurt KALCHER**, Karl-Franzens-Universität Graz, Graz, Austria
Prof. Dr. **Andrzej KLONKOWSKI**, Gdansk University, Gdansk, Poland
Prof. Dr. **Hans-Jürgen MEYER**, Eberhard Karls Universität Tübingen, Tübingen, Germany
Prof. Dr. **Jiri PINKAS**, Masaryk University, Brno, Czech Republic
Dr. **Vytautas REIPA**, National Institute of Standards and Technology, Gaithersburg, Maryland, USA
Prof. Dr. **Tautgirdas RUZGAS**, Malmö Högskola, Malmö, Sweden
Prof. Dr. **Victor SNIECKUS**, Queen's University, Kingston, Ontario, Canada
Prof. Dr. **Andrei TIMERBAEV**, V. I. Vernadskii Institute of Geochemistry and Analytical Chemistry, Moscow, Russia
Assoc. Prof. Dr. **Eugenijus URNEZIUS**, Michigan Technological University, Houghton, Michigan, USA

Indexed in: Chemical Abstracts CAPLUS, EBSCO (Academic Search Complete, Current Abstracts),
Thomson Scientific (SciSearch®, Chemistry Citation Index®, Journal Citation Reports / Science Edition)

Editors Aurelija JUŠKAITĖ, Stefanija SKEBIENĖ
Layout design Egidija JAKUTIENĖ

Lithuanian Academy of Sciences

Gedimino pr. 3, LT-01103 Vilnius, Lithuania, tel. (+370 5) 261 36 20
E-mail: maketas.leidykla@lma.lt
Website www.lmaleidykla.lt/chemija/

SL 327. 2011 12 20
10,75 sp. l. Tiražas 120 egz.
Užsakymas Nr. 2456
Leidžia Lietuvos mokslų akademija,
Gedimino pr. 3, LT-01103 Vilnius
Spausdino „Biznio mašinų kompanijos“ spaustuvė,
J. Jasinskio 16A, LT-01112 Vilnius