

ISSN 0235-7216

LITHUANIAN ACADEMY OF SCIENCES  
LIETUVOS MOKSLŲ AKADEMIJA



# Chemija

---

Chemistry

2015 Vol. 26 No. 1

LIETUVOS MOKSLŲ AKADEMIJA  
VILNIUS – 2015

## Editorial Board

### Editor-in-Chief

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

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

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

## Members

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

## International Advisory Board

Debbie C. CRANS, Colorado State University, Fort Collins, Colorado, USA  
Zenonas JUSYS, Universität Ulm, Ulm, Germany  
Thomas JÜSTEL, Münster University of Applied Sciences, Steinfurt, Germany  
Klaus-Michael JÜTTNER, Karl-Winnacker-Institut der DECHEMA e.V., Frankfurt-am-Main, Germany  
Kurt KALCHER, Karl-Franzens-Universität Graz, Graz, Austria  
Andrzej KLONKOWSKI, Gdansk University, Gdansk, Poland  
Sanjay MATHUR, University of Cologne, Köln, Germany  
Hans-Jürgen MEYER, Eberhard Karls Universität Tübingen, Tübingen, Germany  
Jiri PINKAS, Masaryk University, Brno, Czech Republic  
Vytautas REIPA, National Institute of Standards and Technology, Gaithersburg, Maryland, USA  
Tautgirdas RUZGAS, Malmö Högskola, Malmö, Sweden  
Victor SNIECKUS, Queen's University, Kingston, Ontario, Canada

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

**Editors** Virgilija RIMOŠAITYTĖ, Zina TURČINSKIENĖ

**Layout design** Regina KUNIGĖLIENĖ

## Lithuanian Academy of Sciences

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