
Contents – Turinys

Physical Chemistry

Fizikinė chemija

Birmantas J., Laukaitis A., Blynas J. A comparison of some thermodynamic quantities for hydrocarbons and mercaptans 3

10

Norkus E., Grincienė G., Vaitkus R. Pb(II) complex formation in alkaline solutions of β -cyclodextrin 11

18

Baranauskas A., Tautkus S., Jasaitis D., Kazlauskas R., Kareiva A., Reklaitis J., Norkus E. Influence of pH during sol-gel synthesis on the phase purity, elemental composition and electrical properties of $\text{YBa}_2\text{Cu}_3\text{O}_7$ superconductor 19

25

Juškėnas R., Giraitis R., Pakštas V. The X-ray diffraction investigation of nickel hydride formation in alkaline solution 26

31

Electrochemistry

Elektrochemija

Survila A., Valsiūnas I., Kalinauskas P. Effect of Mo(VI) and W(VI) on photoelectrochemical properties of oxide layers developed on copper electrode 32

Santrauka 35

Gladkovas M., Medelienė V., Samulevičienė M., Juzeliūnas E. Corrosion study of electroplated nickel metal-matrix composites with B_4C , Al_2O_3 and SiC 36

36

Santrauka 40

Leinartas K., Samulevičienė M., Bagdonas A., Sudavičius A., Juzeliūnas E. Electrochemical and corrosion characterisation of magnetron sputtered Fe–Cr–Ni–Ta alloy 41

41

Santrauka 47

Daujotis V., Teišerskienė A. Use of EQCM in a study of thallium(I) electrosorption on mercury 48

48

Santrauka 53

Steponavičius A., Šimkūnaitė D., Macytė G., Valsiūnas I. Copper–cobalt alloy electrodeposition from thiocyanate solutions. 1. Copper electrodeposition onto gold and copper electrodes 54

54

Santrauka 63

Baltrūnas G., Pakalniėnė E. The mechanism of silver deposition and dissolution in cyanide electrolytes 64

64

Santrauka 70

In memoriam 71