

YEAR
MONTH
ISSUE

(LVII) 2012
DECEMBER
4

S T U D I A
UNIVERSITATIS BABEŞ-BOLYAI
CHEMIA

4

Desktop Editing Office: 51ST B.P. Hasdeu, Cluj-Napoca, Romania, Phone + 40 264-40.53.52

CUPRINS – CONTENT – SOMMAIRE – INHALT

NABEEL E. ARIF, ROSLAN HASNI, Second Order and Second Sum Connectivity Indices of Tetrathiafulvalene Dendrimers	7
CORNELIA BOGĂȚAN (POP), MIRCEA NĂSUI, TRAIAN PETRIȘOR JR., MIHAI GABOR, TANIA RISTOIU, LELIA CIONTEA, TRAIAN PETRIȘOR, On the Way of Growing $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Superconducting Thin Films from a Fluorin-Free Water Based Propionate Precursor Solution	13
O. COZAR, C. COTA, N. CIOICA, E.M. NAGY, L. ȚIBRE, FT – IR Investigation of the Plasticizers Effects on the Native Corn Starch Macrostructure	23
DIJE DEHARI, FETAH PODVORICA, SHEFKET DEHARI, MUHAMET SHEHABI, Synthesis and Characterization of Co(II) Complexes with Tridentate (ONO) Schiff Bases	33
DRAGAN M. ĐORĐEVIĆ, MAJA N. STANKOVIĆ, MILOŠ G. ĐORĐEVIĆ, NENAD S. KRSTIĆ, MILA A. PAVLOVIĆ, ALEKSANDAR R. RADIVOJEVIĆ, IVAN M. FILIPOVIĆ, FTIR Spectroscopic Characterization of Bituminous Limestone: Maganik Mountain (Montenegro).....	39
MOHAMMAD REZA FARAHANI, MIRANDA PETRONELLA VLAD, On the Schultz, Modified Schultz and Hosoya Polynomials and Derived Indices of Capra-Designed Planar Bezenoids	55
MODJTABA GHORBANI, MOHAMMAD A. HOSSEINZADEH, MIRCEA V. DIUDEA, On Topological Polynomials of Weighted Graphs	65
ASMA HAMZEH, ALI IRANMANESH, SAMANEH HOSSEIN-ZADEH, MIRCEA V. DIUDEA, Generalized Degree Distance of Trees, Unicyclic and Bicyclic Graphs	73

ANIKÓ KILLYÉNI, MARIA E. YAKOVLEVA, CLEMENS K. PETERBAUER, DÓNAL LEECH, LO GORTON, IONEL CATALIN POPESCU, Effect of Enzyme Deglycosylation on the Amperometric Detection of Glucose at PDH-Modified Electrode	87
ISTVÁN KOCSIS, NICULINA HĂDADE, ION GROSU, Synthesis and Structural Analysis of Some New Arylboronide Decorated Azobenzene Derivatives.....	101
TEODORA MARCU, OVIDIU NEMES, MILICA TODEA, DAN LEORDEAN, CATALIN POPA, Characterization of Hydroxyapatite Coatings on Different Pretreated Ti ₆ Al ₇ Nb Alloy Substrates	109
RALUCA MATIES, BEATA SZEFLER, IOANA IONUT, BRANDUSA TIPERCIUC, QSPR Study on the Chromatographic Behavior of a Set of Thiazole Derivatives by Auto-Correlation Analysis	121
HORIA MOCUTA, MARIETA MUREŞAN-POP, IRINA KACSÓ, GHEORGHE BORODI, SIMION SIMON, IOAN BRATU, Physical-Chemical and Structural Characterization of Ambazone and of Its Synthesis Secondary Product.....	135
CRISTINA MORAR, CARMEN SACALIS, PEDRO LAMEIRAS, IOAN BRATU, OANA MOLDOVAN, YVAN RAMONDENC, MIRCEA DARABANTU, Novel 1,3-Thiazolidines. Synthesis of 2-ARYL-4,4-BIS(Hydroxymethyl)-1,3-Thiazolidines by Direct Thioaminolisation	145
OANA PONTA, ENDRE JAKAB, IOAN BURDA, ARTHUR TUNYAGI, ANDREEA SILAGHI, SIMION SIMON, AFM Investigation of Morphological Changes to <i>Staphylococcus Aureus</i> Surface Induced by AgNO ₃ and Oxacillin Addition.....	157
MIHAELA POPA, AMALIA MESAROS, RALUCA A. MEREU, IOANA PERHAITA, LELIA CIONTEA, TRAIAN PETRISOR, Thermal Decomposition and Kinetics of the Precursors for Obtaining ZnO and Tea Modified ZnO Nanopowders	167
DEJAN PRVULOVIĆ, MILAN POPOVIĆ, DJORDJE MALENČIĆ, MIRJANA LJUBOJEVIĆ, GORAN BARAĆ, VLADISLAV OGNJANOV, Phenolic Content and Antioxidant Capacity of Sweet and Sour Cherries	175
MONICA PUSTIANU, ADINA BUCEVSCHI, POPA ALEXANDRU, ERZSEBET AIRINEI, Analysis and Interpretation of Colours Characteristics of the Dyed Samples, Based on Remission Curves	183
LORÁND ROMÁNSZKI, JUDIT TELELDI, LAJOS NYIKOS, Ultrathin Organic Coatings on Copper, Copper Alloys and Stainless Steel for Controlling the Microbiologically Influenced Corrosion.....	191
EMILIA SABĂU, NICOLAE BÂLC, PAUL BERE, OVIDIU NEMEŞ, New Materials from Waste Glass Fibre	201
ANDRA TĂMAŞ, SORINA BORAN, Comparative Study of Turbulence Promoters on Pressure Loss in Heat Transfer	209
FARDAD KOOHYAR, HASAN GHASEMNEJAD-BOSRA, MEYSAM SHARIFIRAD, Investigation on Thermodynamic Properties for Binary Systems of Water + Formic, Acetic, Trichloroacetic, Lactic, and Citric Acid at $T = 292.15\text{ k}$ and Atmospheric Pressure	217

Studia Universitatis Babes-Bolyai Chemia has been selected for coverage in Thomson Reuters products and custom information services. Beginning with V. 53 (1) 2008, this publication is indexed and abstracted in the following:

- Science Citation Index Expanded (also known as SciSearch®)
- Chemistry Citation Index®
- Journal Citation Reports/Science Edition