

REVISTA DE CHIMIE

BUCHARESTI ROMANIA

COLEGIUL EDITORIAL

Editor Sef

Petru FILIP

Institutul de Chimie Organics C.D. Nenitescu Bucuresti

Editor Sef Adjunct

Gheorghita JINESCU

Universitatea Politehnica Bucuresti

MEMBRI

Alexandru T. BALABAN

Texas A&M University at Galveston, SUA

Ion BOLOCAN

Universitatea Petrol Gaze Ploiesti

Miron Teodor CAPROIU

Institutul de Chimie Organica C.D. Nenitescu Bucuresti

Andrei E. DANET

Universitatea Bucuresti

Elena DIACU

Universitatea Politehnica Bucuresti

Gheorghe DUCA

Academia de Stiinte a Moldovei

Kamel EARAR

Universitatea Dunarea de Jos Galati

Laurentiu FILIPESCU

Universitatea Politehnica Bucuresti

Ionel HAIDUC

Academia Romana

Valeriu V. JINESCU

Universitatea Politehnica Bucuresti

Jiri Jaromir KLEMES

University of Pannonia Veszprem Ungaria

Jean-Marie LEHN

Universite Louis Pasteur, Strasbourg, Franta

Tudor LUPASCU

Academia de Stiinte a Moldovei

Ionel MANGALAGIU

Universitatea Alexandru Ioan Cuza Iasi

Gheorghe MARIA

Universitatea Politehnica Bucuresti

Gheorghe D. MATEESCU

Case Western Reserve University, Cleveland SUA

Lucian MOTIU

AGER Consulting SRL

Gheorghe NECHIFOR

Universitatea Politehnica Bucuresti

Aurel NECHITA

Universitatea Dunarea de Jos Galati

Luoana Florentina PASCU

INCD ECOIND Bucuresti

Virgil PERCEC

University of Pennsylvania, Philadelphia SUA

Eli RUCKENSTEIN

The State University of New York at Buffalo, SUA

Sorin Ioan ROSCA

Universitatea Politehnica Bucuresti

Nicolae TOTIR

ICF I.G. Murgulescu Bucuresti

Paul VASILESCU

Universitatea Politehnica Bucuresti

Luminita VLADESCU

Universitatea Bucuresti

Maria ZAHARESCU

Academia Romana

Institutul de Chimie Fizica Ilie Murgulescu Bucuresti

Director General SYSCOM18

Ion ANDRONACHE

Director SC BIBLIOTECA CHIMIEI SA

Carmen IOAN

Redactor Sef

Carmen IOAN

Tehnoredactare computerizata

Monica BALUTA

Revista apare lunar

Copyright REVISTA DE CHIMIE

Raspunderea pentru datele publicate revine autorilor

**Adresa redactiei: SC BIBLIOTECA CHIMIEI SA -
REVISTA DE CHIMIE**

Calea Plevnei, Nr. 139B, Sector 6

Bucuresti 060011

Tel./Fax: (+40) 021 314 24 47

www.revistadechimie.ro

Factorul de impact pe anul 2015: 0,956

Revista este recenzata de:

CHEMICAL ABSTRACTS, CURRENT CONTENTS

ANALYTICAL ABSTRACTS

si indexata de

Institute for Scientific Information (ISI) si

Chemistry Citation Index

CONTENTS

Rodica Elena Patescu, Claudia Maria Simonescu, C.Onose, T.L.Busuioc, Daiana Elena Pasarica, Carmen Deleanu

Simultaneous Removal of Lead and Nickel Ions from Aqueous Synthetic Solutions by Chitosan Coated Cobalt Ferrite.....1

G.A.Popă, Daniela Florentina Popă (Enache), Dumitra Daniela Slave (Clej), LD.Spiridon, Cristina Monica Mirea, A.Ciocanea

Ultrafiltration of Aqueous Solutions of Food Dye in the Presence of Surfactants.....6

G.L.Gheorghievici, C.Trisca Rusu, Elena Voicila, LM.Nafiu, Anca Maria Cimbru, Szidonia Katalin Tanczos

Titanium Dioxide for Biomedical Uses. I.The controlled production of nanoparticles by hydrothermal synthesis moderated by dimedone.....11

R.Hainarosie, V.Zainea, O.Ceachir, Mura Hainarosie, Catalina Pietrosanu, C.D.Stefanescu

The Use of Methylene Blue in Early Detection of the Vocal Fold Cancer.....16

Kasia Bloch, MNabialek, MSzota

The Effect of Isothermal Annealing on the Structural and Magnetic Properties of the Bulk Amorphous Alloy:FeCoTiYB...18

M.Nabialek, P.Pietrusiewicz, M.Szota, MMAI Bakri Abdullah, A.V.Sandu

The Structure and Porosity of $Fe_{62-x}Co_{10}W_yMe_xY_8B_{20-y}$ Alloys in the Amorphous and Crystalline States (where:Me=Mo,Nb; x=0,1,2; y=0,1,2).....22

Marilena Nicolae

Complex Systems of Distillation Columns Used in The Production of the Propylene Oxide.....28

Raluca Elena Dragomir, PRosca, TJuganaru

Upgrading FCC Light Cycle Oil.....35

D.R.Popoviciu, Ticuta Negreanu Pirjol, L.S.Miclaus

Phytotoxic Effect and Bioaccumulation of Chromium in White Mustard (*Sinapis alba* L.) Seedlings.....40

M.Tampa, Ilinca Nicolae, Corina Daniela Ene, Isabela Sarbu, Clara Matei, Simona Roxana Georgescu

Vitamin C and Thiobarbituric Acid Reactive Substances (TBARS) in *Psoriasis Vulgaris* Related to Psoriasis Area Severity Index (PASI).....43

Catalina Iulia Saveanu, Oana Dragos, V.Danila, Corina Cheptea

Ultrastructural Analysis by Scanning Electron Microscopy of Dental Structures Conditioning with Orthophosphoric Acid and ER.CR:YSGG Laser Irradiation.....48

Daniela Radulescu, Andra Elena Balcangiu Stroescu, C.Pricop, B.Geavlete, Carolina Negrei, O.Bratu, O.Ginghina, Ileana Adela Vacaroiu

Vitamin K Influence on Cardiovascular Mortality in Chronic Hemodialysed Patients.....52

V.G.Vasilescu, Elisabeta Vasilescu, D.Dima, T.L.Ciocan, A.Semenescu, B.Florea, Ileana Mariana Mates, Oana Roxana Chivu

Contributions on Setting the Optimal Regime of Antibacterial Deposition on The Surface of the Oral Implant of Ti10Zr Bio-alloy.....55

Daniela Simina Stefan, Nicoleta Neacsu, Irina Pincovschi, M.Stefan

Water Quality and Self-purification Capacity Assessment of Snagov Lake.....60

E.Tudor, T.Cioroianu, Carmen Sirbu, MDumitru, Adriana Grigore, Lavinia Parvan

Fertilizer for the Treatment of Iron Chlorosis.Physico-chemical and Agro-chemical Properties.....65

Daniela Cirtina, Camelia Capatina

Quality Issues Regarding the Watercourses from Middle Basin of Jiu River.....72

V.M.Dumitrascu, Lidia Benea

Improving the Corrosion Behaviour of 6061 Aluminium Alloy by Controlled Anodic Formed Oxide Layer.....77

M.Matei, LSandu, M.L.Birsa, Laura Gabriela Sarbu, L.Simion

New 4-(4-Hydroxyaryl)-5-Methyl-1,3-Dithiol-2-ylidene Derivatives.....81

Vasilica Vasile, Alina Dima, Mihaela Ion

Monitoring of the Inorganic Pollutants in Built Indoor Environment.....85

Anisia Iuliana Alexa, Alina Cantemir, A.Ciobica, LGardikiotis, Iulia Antioch, C.Honceriu,

Carmen Lacramioara Zamfir, V.Poroch

Preliminary Data Regarding Decreased Catalase Specific Activity in the Tears as a Result of Environmental -stress.....90

Oana Tanculescu, A.Doloca, Raluca Maria Vieriu, Florentina Mocanu, Gabriela Iftene, Anca Vitalariu, Sorina Solomon, Nicoleta Ioanid, Gianina Iovan	Load-Bearing Capacity of Direct Inlay-Retained,Fibre-reinforced Composite Fixed Partial Dentures with Different Cross-Sectional Pontic Design.....	94
Song Il Kong, Danuta Matei, Diana Cursaru, V.Matei, D.Ciuparu	Characterization and Stability of Heteropolyacid Catalysts Supported on MCM-41 Materials Synthesized by Ultrasonic Irradiation.....	101
Gina Botnariu, Norina Forna, Alina Popa, Raluca Popescu, Alina Onofriescu, D.Cioloca, Cristina Lacatusu, B.Mihai	Correlation of Glycemic Control Parameters in Non-Diabetic Person with Cardiovascular Risk Scores-Results from a Cross-Sectional Study.....	108
Zoia Apostolescu, Oana Roxana Chivu, A.Semenescu, C.Babis, C.Amza, G.Iacobescu, Maria Alina Gligor, D.Nitoi, G. M. Adir	The Impacts of Industrial Processing of Oil on Soil Quality.....	111
I.V.Asaftei, N.C.Lungu, L.M.Birsa, LG.Sandu, Laura Gabriela Sarbu, Maria Ignat	Performance of Ag-HZSM-5 Zeolite Catalysts in n-heptane Conversion.....	116
Sinziana Venera Morarita, Ana Maria Hossu, Andreea Antonia Georgescu	The Study of Analysed Biochemical Parameters on Fruits of <i>Prunus Cerasifera</i> Ehrh. Biotypes.....	121
Alexandrina Muntean, Anca Stefania Mesaros, Anca Porumb, Stanca Cuc, Marioara Moldovan, Adriana Balan	Enamel Apperence after Orthodontic Attachment Removal. <i>In vitro</i> SEM analysis.....	125
Adriana Marinoiu, Elena Carcadea, Claudia Cobzaru, Corina Cernatescu	Numerical Approach for Catalytic Conversion of CO ₂ to Methane over Nickel Base Catalysts.....	128
S.Andrian, Gianina Iovan, Angela Cristina Ghiorghie, Galina Pancu, A.Georgescu, Dana Nicoleta Antonescu, Simona Stoleriu	Study Regarding the Effect of Some Remineralizing Products Used in the Treatment of Erosion Induced by Sport Drinks.....	134
Mihaela Neagu, Daniela Roxana Popovici, Cristina Maria Dusescu, Catalina Calin	Adsorption of p-Cresol by Mesoporous Activated Carbon. I.Kinetics studies and data modeling.....	139
A.Erdem, H.Genc, N.Sen, R.Kilincarslan, E.Erdem	The Synthesis and Reactions of Novel Pyrazole Derivatives by 4-phenylcarbonyl-5-phenyl-2,3-dihydro-2,3-furandione Reacted with Some Hydrazones.....	143
PChirita, I.V.Asaftei, LSandu, Laura Gabriela Sarbu, V.V.Lupu	Mesoionic 4-(2-Dialkylamino-1,3-dithiol-2-ylium-4-yl)phenolates.....	147
M.G.Dolis, Cristina Simeanu, A.Usturoi, D.Simeanu	Research Regarding Chemical Composition and the Digestibility of the Mulberry Leaves from Eforie Variety.....	151
Irina Ciotlaus, Lucia Gansca, Adriana Maria Andreica, LOprean	A practical Synthesis of (Z)- and (E)-8-Dodecene-1-yl Acetate, Components of Lepidoptera Insect Sex Pheromones.....	157
Luminita Lazar, Cristina Ioana Bica, Krisztina Martha, Mariana Pacurar, E.Bud, Ana Petra Lazar, Lilla Lorinczi	The Use of Polymerase Chain Reaction (PCR) for Identifying Periodontopathogenic Bacteria- Therapeutic Implications in Periodontal Disease.....	163
Letitia Doina Duceac, Cristina Elena Dobre, Ioana Pavaleanu, Gabriela Calin, Simona Nichitus, Daniela Damir	Diseases Prevention by Water Defluoridation Using Hydrotalcites as Decontaminant Materials.....	168
B.H.Serb, Alina Ormenisan, Ancuta Pleseru, V.Preluca, Mihaela Cernusca Mitariu, Corina Roman Filip, H.M.Barbu, S.Cernusca Mitariu	Pharmacodynamic Modulation of Motility by Glycine Administartion in <i>Dugesia dorotocephala</i>	172
Oana Roxana Chivu, A.Semenescu, C.Babis, C.Amza, G.Iacobescu, Zoia Apostolescu, V.Petrescu, G.M.Adir	The Impact of the Industrial Processing of Oil on the Rainfall Water Quality.....	175
Adriana Maria Andreica, Lucia Gansca, Irina Ciotlaus, I. Oprean	Convenient Synthesis of (Z)-7-and (E)-9-dodecene-1-yl Acetate, Components of Some Lepidoptera Insect Sex Pheromone.....	180
Gabriela Balan, Camelia Ana Grigore, C.C. Budacu, Alina Calin, M Constantin, Catalina Mihaela Luca	Antisepsis, Disinfection Sterilization - Methods Used in Dentistry.....	186
A. Almasi, Anca Porumb, Angela Codruta Podariu, Liana Todor, S. Al. Tofan, Ramona Amina Popovici	The Effects of Nanofillers on Composite Materials Mechanical Properties.....	192
Al. Patrascu, Liliana Savin, Olivera Lupescu, D. Mihailescu, Dana Nicoleta Mihai, M. Neculaes, V. Grigorescu, Carmen Greierosu, P Botez	Multifocal Osteonecrosis Glucocorticoid Induced.....	200

CUPRINS

Rodica Elena Patescu, Claudia Maria Simonescu, C.Onose, T.L.Busuioc, Daiana Elena Pasarica, Carmen Deleanu

Indepeartarea simultana a ionilor de plumb si nichel din solutii apoase utilizand ferita de cobalt acoperita cu chitosan.....1
G.A.Popa, Daniela Florentina Popa (Enache), Dumitra Daniela, Slave (Clej), I.D.Spiridon,

Cristina Monica Mirea, A.Ciocanea

Ultrafiltrarea solutiilor apoase cu decoloranti alimentari in prezenta surfactantilor6

G.L.Gheorghievici, C.Trisca Rusu, Elena Voicila, I.M.Nafiu, Anca, Maria Cimbru, Szidonia Katalin Tanczos

Dioxid de titan pentru uz biomedical. I. Productia controlata a nanoparticulelor
prin sinteza moderata de dimedona.....11

R.Hainarosie, V.Zainea, O.Ceachir, Mura Hainarosie, Catalina Pietrosanu, C.D.Stefanescu

Utilizarea solutiei de albastru de metil in detectarea precoce a neoplasmelor corzii vocale.....16

Kasia Bloch, M.Nabialek, M.Szota

Efectul de calire izoterma asupra proprietatilor structurale si magnetice ale aliajului amorf bulk: FeCoTiYB.....18

M. Nabialek, P. Pietrusiewicz, M.Szota, MMAI Bakri Abdullah, A.V. Sandu

Structura si porozitatea aliajului $Fe_{62-x}Co_{10}W_yMe_xY_8B_{20-y}$ in stare amorfa si cristalina
(unde: Me=Mo,Nb; x=0,1,2; y=0,1,2).....22

Marilena Nicolae

Sisteme de coloane complexe utilizate la fabricarea propenoxidului.....28

Raluca Elena Dragomir, PRosca, T.Juganaru

Imbunatatirea procesului de hidrocracare a unui amestec de motorine.....35

D.R.Popoviciu, Ticuta Negreanu Pirjol, L.S.Miclaus

Efectul fitotoxic si bioacumularea cromului in semintele de mustar alb.....40

M.Tampa, Ilinca Nicolae, Corina Daniela Ene, Isabela Sarbu, Clara Matei, Simona Roxana Georgescu

Vitamina C si acidul tiobarbituric substante reactive in *Psoriasis Vulgaris* corelat cu indexul
de severitate al domeniului psoriasis.....43

Catalina Iulia Saveanu, Oana Dragos, V.Danila, Corina Cheptea

Analiza ultrastructurala utilizand microscopia electronica prin scanare a structurii dentinare conditionata cu acid
ortofosforic si prin iradiere cu ER.CR:YSGG Laser.....48

**Daniela Radulescu, Andra Elena Balcangiu Stroescu, C.Pricop, B.Geavlete, Carolina Negrei, O.Bratu,
O.Ginghina, Ileana Adela Vacariu**

Asocierea vitaminei K cu mortalitatea de cauza cardiovasculara la pacientii hemodializati cronic.....52

**V.G.Vasilescu, Elisabeta Vasilescu, D.Dima, T.L.Ciocan, A.Semenescu, B.Florea, Ileana Mariana Mates,
Oana Roxana Chivu**

Contributii privind stabilirea regimului optim de depunere antibacteriana pe suprafata implantului
oral din bioalaj Ti10Zr.....55

Daniela Simina Stefan, Nicoleta Neacsu, Irina Pincovschi, M.Stefan

Calitatea apei si capacitatea de autopurificare a Lacului Snagov.....60

E.Tudor, TCioroianu, Carmen Sirbu, MDumitru, Adriana Grigore, Lavinia Parvan

Fertilizanti pentru tratarea clorozei ferice. Proprietati fizico-chimice si agrochimice.....65

Daniela Cirtina, Camelia Capatina

Aspecte privind caracterizarea calitatii unor cursuri de apa din bazinul hidrografic mijlociu al raului Jiu.....72

V.M.Dumitrascu, Lidia Benea

Imbunatatirea comportamentului la coroziune a aliajului Al6061 prin formarea controlata anodic
a stratului de oxid.....77

MMatei, LSandu, ML.Birsa, Laura Gabriela Sarbu, L.Simion

Noi derivati de 4-(4-hidroxiaril)-1,3-ditiol-2-iliden.....81

Vasilica Vasile, Alina Dima, Mihaela Ion

Monitorizarea poluantilor anorganici in mediul interior construit.....85

Anisia Iuliana Alexa, Alina Cantemir, A.Ciobica, I.Gardikiotis, Iulia Antioch, C.Honceriu, Carmen Lacramioara Zamfir, V.Poroch	
Date preliminare privind activitatea specifica scazuta a catalazei din lacrimi ca urmare a stresului din mediul inconjurator.....	90
Oana Tanculescu, A.Doloca, Raluca Maria Vieriu, Florentina Mocanu, Gabriela Ifteni, Anca Vitalariu, Sorina Solomon, Nicoleta Ioanid, Gianina Iovan	
Capacitatea portanta a compozitelor ranforsate cu fibre pentru protezele fixe partiale.....	94
Song Il Kong, Danuta Matei, Diana Cursaru, V.Matei, D.Ciuparu	
Caracterizarea si stabilitatea catalizatorilor heteropoliacid suportati pe materiale MCM-41 sintetizati prin iradiere ultrasonica.....	101
Gina Botnariu, Norina Forna, Alina Popa, Raluca Popescu, Alina Onofriescu, D.Cioloca, Cristina Lacatusu, B.Mihai	
Evaluarea corelatiei dintre parametrii principali ai controlului glicemic si scorurile de risc cardiovascular la persoanele nondiabetice.....	108
Zoia Apostolescu, Oana Roxana Chivu, A.Semenescu, C.Babis, C.Amza, G.Iacobescu, Maria Alina Gligor, D.Nitoi, G. M. Adir	
Impactul activitatii de procesare industriala a petrolului asupra calitatii solului.....	111
I.V.Asaftei, N.C.Lungu, L.M.Birsa, I.G.Sandu, Laura Gabriela Sarbu, Maria Ignat	
Performanta catalizatorului zeolitic Ag-HZSM-5 in conversia n-heptanului.....	116
Sinziana Venera Morarita, Ana Maria Hossu, Andreea Antonia Georgescu	
Studiul parametrilor biochimici ai fructelor de corcodus.....	121
Alexandrina Muntean, Anca Stefania Mesaros, Anca Porumb, Stanca Cuc, Marioara Moldovan, Adriana Balan	
Evaluarea aspectului smaltului dentar dupa indepartarea atasamentelor ortodontice. Analiza SEM <i>in vitro</i>	125
Adriana Marinoiu, Elena Carcadea, Claudia Cobzaru, Corina Cernatescu	
Model matematic pentru conversia catalitica a CO ₂ la metan pe catalizatori pe baza de nichel.....	128
S.Andrian, Gianina Iovan, Angela Cristina Ghiorghie, Galina Pancu, A.Georgescu, Dana Nicoleta Antonescu, Simona Stoleriu	
Studiu privind actiunea unor produse de remineralizare utilizate in tratamentul eroziunilor induse de bauturile pentru sportivi.....	134
Mihaela Neagu, Daniela Roxana Popovici, Cristina Maria Dusescu, Catalina Calin	
Adsorbta paracrezolului pe carbune mezoporos activat. I. Studii cinetice si date de modelare.....	139
A.Erdem, H.Genc, N.Sen, R.Kilincarslan, E.Erdem	
Sinteza si reactiile unor noi derivati ai pirazolului reactionati cu unele hidrazone.....	143
PChirita, I.V.Asaftei, I.Sandu, Laura Gabriela Sarbu, V.V.Lupu	
Fenolati mezoionici de 4-[2--dialchilamino-1,3-ditiol-2-iliu-4-il].....	147
M.G.Dolis, Cristina Simeanu, A.Usturoi, D.Simeanu	
Cercetari privind compozitia chimica si digestibilitatea frunzelor de dud din varietatea Eforie.....	151
Irina Ciotlaus, Lucia Gansca, Adriana Maria Andreica, I.Oprean	
Sinteza (Z)- si (E)-8 dodecen-1-il-acetat componente ale feromonilor sexuali ai insectelor din ordinul Lepidoptera.....	157
Luminita Lazar, Cristina Ioana Bica, Krisztina Martha, Mariana Pacurar, E.Bud, Ana Petra Lazar, Lilla Lorinczi	
Utilizarea polimerazei reactive pentru identificarea bacteriei periodontopatogene - implicatii terapeutice in afectiunile periodontale.....	163
Letitia Doina Duceac, Cristina Elena Dobre, Ioana Pavaleanu, Gabriela Calin, Simona Nichitus, Daniela Damir	
Prevenirea afectiunilor prin deflorurarea apei utilizand hidrotalcite ca materiale decontaminante.....	168
B.H.Serb, Alina Ormenisan, Ancuta Pleseru, V.Preluca, Mihaela Cernusca Mitariu, Corina Roman Filip, H.M.Barbu, S.Cernusca Mitariu	
Modularea farmacodinamica a motilitatii prin administrarea de glicina in <i>Dugesia dorotocephala</i>	172
Oana Roxana Chivu, A.Semenescu, C.Babis, C.Amza, G.Iacobescu, Zoia Apostolescu, V.Petrescu, G.M.Adir	
Impactul activitatii de procesare industriala a petrolului asupra calitatii apei de precipitatii.....	175
Adriana Maria Andreica, Lucia Gansca, Irina Ciotlaus, I. Oprean	
Sinteza(Z)-7- si(E)-9- dodecen1-il-acetat componente ale feromonilor sexuali ai insectelor din ordinul Lepidoptera	180
Gabriela Balan, Camelia Ana Grigore, C.C. Budacu, Alina Calin, M Constantin, Catalina Mihaela Luca	
Antisepsie, dezinfecție-metode de sterilizare utilizate în stomatologie.....	186
A. Almasi, Anca Porumb, Angela Codruta Podariu, Liana Todor, S. Al. Tofan, Ramona Amina Popovici	
Efectele nanofilerilor asupra proprietatilor mecanice ale materialelor compozite.....	192
Al. Patrascu, Liliana Savin, Olivera Lupescu, D. Mihailescu, Dana Nicoleta Mihai, M. Neculaes, V. Grigorescu, Carmen Greierosu, P Botez	
Osteonecroza multifocala indusa de glucocorticoizi.....	200

***REVISTA DE CHIMIE
SI
REVISTA MATERIALE PLASTICE
POT FI ACCESATE GRATUIT
LA URMATOARELE ADRESE:***

*<http://www.revistadechimie.ro/>
<http://www.revmaterialeplastice.ro/>*

***FREE WEB ACCESS FOR
REVISTA DE CHIMIE
AND
MATERIALE PLASTICE***

*<http://www.revistadechimie.ro/>
<http://www.revmaterialeplastice.ro/>*