



REVISTA DE CHIMIE

Chemistry
Petrochemistry
Chemical engineering
Process equipment
Biotechnology
Environment protection
Marketing & Management
Applications in medicine
Dental medicine
Pharmacy

August 2020

Print ISSN: 0034-7752 / Online ISSN: 2668-8212

<https://revistadechimie.ro>
<https://doi.org/10.37358/Rev.Chim.1949>

REVISTA DE CHIMIE FOUNDED IN 1949
BUCURESTI ROMANIA



REVISTA DE
CHIMIE SRL

EDITORIAL BOARD

Editor-in-Chief

Petru FILIP

C. D. Nenitescu Institute of Organic Chemistry, Bucharest

Deputy Editor-in-chief

Gheorghita JINESCU

Politehnica University of Bucharest

Deputy Editor-in-chief

Victor VOICU

Romanian Academy

Deputy Editor-in-chief

Kamel EARAR

Dunarea de Jos University of Galati

MEMBERS

Leonard AZAMFIREI

University of Medicine, Pharmacy, Science and Technology of Targu Mures

Irinel Adriana BADEA

University of Bucharest

Alexandru T. BALABAN

Texas A&M University of Galveston, SUA

Romanian Academy

Ovidiu Gabriel BRATU

Carol Davila University of Medicine and Pharmacy

Simona Gabriela BUNGAU

University of Oradea

Miron Teodor CAPROIU

C. D. Nenitescu Institute of Organic Chemistry, Bucharest

Dragos CIUPARU

Petroleum - Gas University of Ploiesti

Andrei E. DANET

University of Bucharest

Elena DIACU

Politehnica University of Bucharest

Gheorghe DUCA

Academy of Sciences of Moldova

Laurentiu FILIPESCU

Politehnica University of Bucharest

Norina Consuela FORNA

University of Medicine and Pharmacy Grigore T. Popa, Iasi, Romania

Anca-Irina GALACTION

University of Medicine and Pharmacy Grigore T. Popa, Iasi, Romania

Ionel HAIDUC

Romanian Academy

Valeriu V. JINESCU

Politehnica University of Bucharest

Andrei JITIANU

City University of New York

Jiri Jaromir KLEMES

University of Pannonia Veszprem Ungaria

Jean-Marie LEHN

Universite Louis Pasteur, Strasbourg, Franta

Gheorghe MARIA

Politehnica University of Bucharest

Romanian Academy

Gheorghe D. MATEESCU

Case Western Reserve University, Cleveland, SUA

Lucian MOTIU

AGER Consulting SRL

Gheorghe NECHIFOR

Politehnica University of Bucharest

Csaba PAIZS

Babes-Bolyai University of Cluj

Luoana Florentina PASCU

INCD ECOIND Bucharest

Virgil PERCEC

University of Pennsylvania, Philadelphia, SUA

Eli RUCKENSTEIN

The State University of New York at Buffalo, SUA

Sorin Ioan ROSCA

Politehnica University of Bucharest

Bouchta SAHRAOUI
University of Angers, UFR Sciences
Institute of Sciences and Molecular Technologies of Angers, France

Paul VASILESCU
Politehnica University of Bucharest

Maria ZAHARESCU
Institute of Physical Chemistry Ilie Murgulescu, Bucharest
Romanian Academy

Yanzhong ZHANG
College of Chemistry, Chemical Engineering & Biotechnology Donghua University, China

General Manager
Ion ANDRONACHE

Publisher Chief
Gabriel-Lucian RADU
Politehnica University of Bucharest

Manager
Alice CRISTEA
Revista de Chimie SRL

Computer Editing
Monica BALUTA

Impact factor 2019: 1.755

CONTENTS

LIVIU BIRZAN, MIHAELA CRISTEA, VICTORITA TECUCEANU, CONSTANTIN DRAGHICI, ANAMARIA HANGANU, ALEXANDRU C. RAZUS A Visit to Wittig and Arsa-Wittig Reactions.....	1
MARIA-IULIANA MARCUS, MARIA VLAD, GYÖRGY DEÁK, ANDREEA MONCEA, ANA-MARIA PANAIT, GELU MOVILEANU Thermal Stability of Inorganic Pigments Synthesized from Galvanic Sludge	13
ELENA-EMILIA OPRESCU, CRISTINA-EMANUELA ENASCUTA, ELENA RADU, VASILE LAVRIC Synthesis and Evaluation of Levulinic Ester as Biodiesel Additives.....	21
MARIA ELENA RADULESCU-GRAD, GABRIELA VLASE, GHEORGHE ILIA, ADELINA ANDELESCU, SIMONA POPA, ALFA-XENIA LUPEA Amido Black 10B Dye Copper Complex–Synthesis, Characterization and Color Analysis.....	27
VIRGIL BADESCU Contributions to the Interpretation of Mass Spectra of the TEOS Methoxy-Transesters. Linked Scans, Accurate Mass Measurements and M+1, M+2 Isotopic Effects.....	39
ANDREY GURIN, YELENA CHAKROVA, ILONA MATVEYEVA, PATRICK RISS Optimization of Reaction Parameters for the Synthesis of ¹⁷⁷ Lu-DOTAELA.....	55
DORA DOMNICA BACIU, ANDREEA MATEI, TEODOR VISAN Extraction Procedure and Cyclic Voltammetry Assay for Detection of Monosodium Glutamate from Different Processed Food Sources.....	63
GHEORGHE BRANOIU, AURA CEHLAROV, DIANA CURSARU, SONIA MIHAI Celestine from Valea Sarii (Vrancea region): New Data and Crystal Structure Refinement.....	72
ZAFAR IQBAL KHAN, KAFEEL AHMAD, NAUNAIN MEHMOOD, ASIA FARDOUS, YONGJUN YANG, JING MA, TASNEEM AHMAD, FU CHEN, SUMAIRA GONDAL, KINZA WAJID, IFRA SALEEM MALIK, MUDASRA MUNIR, IJZA RASOOL NOORKA, MUHAMMAD FAHAD ULLAH, HUMAYUN BASHIR, MOHAMMAD REZA KOUHKAN NEJAM, ALI-REZA BAYAT Relationship Between Metal Load (Selenium, Arsenic, Molybdenum) of Soil, Plant and Serum of Buffaloes.....	80
MALIK SATAEV, SHAYZADA KOSHKARBAEVA, PERIZAT ABDURAZOVA, ALMAGUL KADIRBAEVA, KALAMKAS AMANBAEVA, RAMSHAT ABZHALOV, YERKEBULAN RAIYMBEKOV Chemical Copper Plating of Cotton Fabrics by Photochemical Activation of the Surface	90
FLORENTINA GALAN, MARIAN CATALIN DUCU, MANUELA FULGER, DENIS AURELIAN NEGREA Investigation of Oxidation Behavior of 304L and 310S Steels with Potential Application in Supercritical Water-cooled Nuclear Reactors.....	98
ADIN HASRUDIN, ZAENAL ABIDIN, NURUL HIEDAYATI, VICKY PRAJAPUTRA Hydrothermal Synthesis of Multi-Color Fluorescent Carbon Dots from Sappan Wood (<i>Caesalpinia sappan</i>) as an Acid-Base Indicator.....	106
HANNY F. SANGIAN, ANITA R. IBRAHIM, HANDY I. R. MOSEY, JOSHUA R. ROMBANG, ADEY TANAUMA, GUNTUR PASAU, SENI H. TONGKUKUT, FINGKEN SAGAI, RONNY PURWADI, GODLIEF F. NEONUFA, JOHNLY A. RORONG, ARIEF WIDJAJA, ABUBAKAR TUHULOULA, RAMLI THAHIR, BAYU ACHIL SADJAB, VECKY A. J. MASINAMBOW, TUN SRIANA, ZAMI FURQON, SILVYA Y. AGNESTY Study of The Composition, Fuel Parameter, and Triangular Graph of a Gasoline and Aqueous Ethanol Fuel Blend in a Single Phase.....	113
HANY M. YOUSSEF Separation/Preconcentration of Al(III) from Water Samples via Sorptive-Flotation Technique Using Silica Nanoparticles Modified with Folic Acid.....	124
JUNAIDI, NUR ASRIYANI, SIMON SEMBIRING, POSMAN MANURUNG, SUTOPO HADI Conductive Layers Based on Silver Nanowires by Spray Coating Process.....	136

KAMISAH D. PANDIANGAN, WASINTON SIMANJUNTAK, R. SUPRIYANTO, ILIM, PONCO PRASETYO, SUTOPO HADI Production of Magnesium Oxides from Raw Salt Solution Using Electrochemical Precipitation Method as a Heterogeneous Catalyst for Transesterification of Coconut Oil	148
HABIB BOUZID, CESAR M. C. FILHO, JOANA RITA C. MARQUES, ARTUR J. M. VALENTE, LICINIO M. GANDO-FERREIRA A New Approach on the Amino Acid Lysine Quantification by UV-Visible Spectrophotometry	159
ZHIQUAN HUANG, JINCHAO ZOU, GUOWEI YANG, YANCHUN ZHU, HONGYU LAI, CHUANLU QI Effect of Cross Rolling on the Corrosion Resistance of AZ31 Magnesium Alloy.....	176
RABIA REHMAN, ASMA RAZA, LIVIU MITU Evaluation of Antioxidant Prospective of <i>Diospyros malabarica</i> Methanolic Extract for Improving Oxidative Stability of Mustard Oil.....	183
OANA OTILIA NICULITA, CRISTINA GEORGIANA JERCAN, LETITIA-ELENA RADU, ZSOFIA VARADY, ANCA COLITA, ALINA DANIELA TANASE, ANDREI COLITA The efficacy of Polyvinylpyrrolidone-Zn Gluconate and Taurine in the Prevention of Oral Mucositis in Haematological Patients.....	195
SHUN WANG, SHENXU BAO, YIMIN ZHANG, YIZHONG YUAN Optimization of Silicon Leaching for White Carbon Black Preparation from Vanadium-Extraction Residue Using Response Surface Methodology.....	206
AN TRAN NGUYEN MINH, CUONG NGUYEN VAN, QUANG NGUYEN MINH, TRI MAI DINH, ALAM MAHBOOB Gold Nanoparticles from Ostruthin: Green Synthesis, a Stable Mechanism, Antitumor and Antibacterial Activity.....	220
JAWAHER ALKAHTANI, MOHAMED SOLIMAN ELSHIKH, AYESHA KHAN, KAFEEL AHMAD, ZAFAR IQBAL KHAN, KHADIM HUSSAIN, SONAINA NAZAR, HUMAYUN BASHIR, MUDASRA MUNI, MUHAMMAD NADEEM Evaluation of Anti-nutritional Compounds in Selected Wild Plants Consumed by Ruminants in Pasturelands.....	233
KAFEEL AHMAD, YONGJUN YANG, ZAFAR IQBAL KHAN, NIMRA ARSHAD, TASNEEM AHMAD, MUHAMMAD NADEEM, KINZA WAJID, HUMAYUN BASHIR, SONAINA NAZAR, MUDASRA MUNIR, IFRA SALEEM MALIK¹, ASMA ASHFAQ, SHEHZADI MAHPARA, IJAZ RASOOL NOORKA, NAUNAIN MEHMOOD, TASWAR ABBAS, SAIF ULLAH, HAFSA MEMONA, FARZANA SHAHEEN, MUBEEN AKHTAR, PERVAIZ AKHTER, SHAHZAD AKHTAR, ILKER UGULU, JING MA, FU CHEN Assessing Zinc Amassing in Forages, Buffalo Blood and Topsoil Collected from Sargodha City, Pakistan.....	240
DRAGOS IOAN TOHANEAN, VASILIOS KORONAS, PETER SAGAT, IOAN TURCU, IOANA MARIA CURITIANU, CRISTINA IOANA ALEXE, DAN IULIAN ALEXE Study on Water and Other Drinks Used for Hydration in Movement Activities.....	249
XENIA BACINSCHI, OANA SAPTEFRATI, ANCA ZGURA, LAURA ILIESCU, BOGDAN HAINEALA, ELVIRA BRATILA, CLAUDIA MEHEDINTU, RAZVAN-COSMIN PETCA, AIDA PETCA, RAMONA ILEANA BARAC, RODICA ANGHEL Evaluation of Biochemical Markers Correlated with Breast Cancer Young Patients	255
LAURA ELISABETA CHECHERITA, IULIAN COSTIN LUPU, RADU CRISAN DABIJA, BOGDAN PETRU BULANCEA, MIHAELA SALCEANU, TUDOR HAMBURDA, LIANA AMINOV, OVIDIU STAMATIN Complex Intraoral Rehabilitation with Collagen Supplements and Biomedical Infrared Radiation Reliance in TMJ Disorders.....	261
BIANCA LARISA HOLHOS, SIMONA BUNGAU, DELIA MIRELA TIT, COSMIN MIHAI VESA, TAPAN BEHL, ABBAS RAHDAR, LIVIU LAZAR, CLAUDIA TEODORA JUDEA PUSTA The Correlation of Vitamin D Level with Refractive Errors in Disabled Paediatric Patients	271
SANDA JURJA, MIHAELA MEHEDINTI, RODICA SIRBU, MALINA COMAN, EMIN CADAR Importance of Chemical Therapy in Relapsing Polychondritis – a Disease with Impact on the Eye Tissues.....	284

MADALINA PREDA, ALINA-ALEXANDRA SERBANESCU, MARA MADALINA MIHAI, GABRIELA-LOREDANA POPA, LOREDANA CORNELIA SABINA MANOLESCU, MIRCEA-IOAN POPA	
The Need to Develop New Antimicrobial Molecules, as Revealed by <i>in vitro</i> Assessment of Drug Resistance in Staphylococcal Skin Infections Treated with Autologous Bacterial Vaccine.....	292
ALEXANDRU DANIEL REFERENDARU, ANCA IULIANA POPESCU, IASMIN MIREA, STEFANIA ANDRADA IANCU, RALUCA MONICA COMANEANU, HORIA MIHAIL BARBU	
Experimental Studies Regarding the Distribution of the Masticatory Pressures According to the Turn's Length of the Dental Implants.....	304
OVIDIU STAMATIN, IULIAN COSTIN LUPU, RADU CRISAN -DABIJA, BOGDAN PETRU BULANCEA, MIHAELA SALCEANU, LIANA AMINOV, TUDOR HAMBURDA, LAURA ELISABETA CHECHERITA	
Electrotherapy and Medication Tendencies in Complex Intraoral Rehabilitation of Young Dental Traianee with MSDs and TMDs Associated Patology.....	313
ADRIAN STANCU, CRISTINA ROMEO, ALINA GHISE, MARIUS PENTEA, SORIN PASCA, LILIANA CARPINISAN, ANCA HULE, DEGI JANOS, DELIA MIRA BERCEANU-VADUVA, DANA EMILIA VELIMIROVICI, CAMELIA TULCAN	
Contribution Regarding the Use of Immunohistochemical Examination in Hemangiosarcoma	323
LI YU-YUAN, WU YI-JUN	
Changes of neuropathy target esterase affect phospholipid homeostasis in SK-N-SH cells.....	327
LE WANG, YINGHUI SONG, BO JIANG, ZHIHUA ZHANG, SULAI LIU	
MiR-504 and miR-205 May be Used to Evaluate Prognosis and Chemotherapeutic Effect of Pancreatic Cancer Patients.....	335
JIAQI CHEN, JIANJUN TANG, CHAOKE BU, JIANYUN LIAO, JIEMING YU, TINGTING LUO, YIQI XV, RONGFANG DING	
Analysis of Pathogenesis for Acute Myeloid Leukemia Based on Dysfunction Module.....	344
JIAQI CHEN, JIANJUN TANG, CHAOKE BU, JIANYUN LIAO, JIEMING YU, TINGTING LUO, YIQI XV, RONGFANG DING	
Analysis of Cellular and Biochemical Factors Involved in Acute Myeloid Leukemia Taking Into Account the Dysfunctional Module	353
ERATA	353