



ROMÂNIA
UNIVERSITATEA BABEŞ-BOLYAI CLUJ-NAPOCA

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RECTORATUL

Universitatea Babeş-Bolyai Competiția Excelenței 2010

Dosar individual

Notă: Toate datele se referă la perioada 2005-2009

Nume, prenume, grad did.	DORNEANU SORIN-AUREL. LECTOR DR.
Facultatea, Catedra	Facultatea de Chimie și Inginerie Chimică, Catedra de Chimie Fizică
Domeniul științific	Chimie (Electrochimie)
Adresa paginii web personale	http://lcec.ro/dorneanu.html
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Criteriaul I – Output

1. Articole științifice publicate în reviste indexate ISI (cu menționare factorului de impact în cazul celor cotate)

1. „Computer-Controlled System for ISEs Automatic Calibration”, S.A. Dorneanu, V. Coman, I. C. Popescu and P. Fabry, *Sensors and Actuators B: Chemical*, B105/2, **2005**, 521-531
2. „Deposition of CdS thin films by nonstationary electrochemical techniques”, P. Ilea, S.A. Dorneanu, I.C. Popescu, *Revista de Chimie*, 56, (4), **2005**, 382-586
3. „Reticulated vitreous carbon (RVC) electrode reactor for copper ions removal from dilute solutions”, C. G. Ilea, S.A. Dorneanu, A. Imre, P. Ilea, *Studia Universitatis Babes-Bolyai, Seria Chimia XLVV* (1), **2005**, 3-11
4. „New [4.4.4]cyclophane as ionophore for ion-selective electrodes”, L. Varvari, I.C. Popescu, S.A. Dorneanu, D. Gligor, *Studia Universitatis Babes-Bolyai, Seria Chimia*, LII (1), **2008**, 113-118
5. „Electrodeposition of some heavy metals on Reticulated vitreous carbon electrode”, S.A. Dorneanu, F.L. Beke, P. Ilea, *Studia Universitatis Babes-Bolyai, Seria Chimia*, LII (1), **2008**, 97-104
6. „Electrochemical metals recovery from electronic wastes. Part. I. Cooper recovery from synthetic solutions”, F. Imre-Lucaci, S.A. Dorneanu, P. Ilea, *Studia Universitatis “Babeş-Bolyai”, Seria Chimia, in press.*
7. „Detection of electroactive products resulted from electrochemical nitrate reduction in alkaline media”, F. Bălaj, F. Imre-Lucaci, S.A. Dorneanu, P. Ilea, *Studia Universitatis “Babeş-Bolyai”, Seria Chimia, in press.*
8. „Study of hydrogen peroxide electrosynthesis on modified graphite using a WJRDE”, C. Vlaic, S.A. Dorneanu, P. Ilea, *Studia Universitatis “Babeş-Bolyai”, Seria Chimia, in press.*

Nr. crt.	Indicatie bibliografica	Factor de impact ^a
1	<i>Sensors Actuat B Chem</i> , B105/2, 2005 , 521-531	3.122
2	<i>Revista de Chimie</i> , 56, (4), 2005 , 382-586	0.389
3.	<i>Studia Universitatis “Babeş-Bolyai”, Seria Chimia</i>	0

^a Factorii de impact ai revistelor stiintifice corespund listei ISI-2008.

2. Articole științifice publicate în ISI proceedings

Nu este cazul

3. Articole științifice indexate în BDI (din lista CNCSIS)

Nu este cazul

4. Alte articole științifice/capitole publicate în reviste/volume cu referenți (peer-reviewed)

Nu este cazul

5. Cărți științifice publicate în edituri internaționale

Nu este cazul

6. Cărți științifice publicate în edituri naționale acreditate

Nu este cazul

7. Editor de volume publicate în edituri naționale și internaționale

Nu este cazul

8. Brevete internaționale

Nu este cazul

9. Brevete naționale

Nu este cazul

10. Impact tehnologic al brevetelor: resurse financiare extrabugetare atrase în relație cu economia

Nu este cazul

11. Realizări artistice naționale și internaționale (Domeniul Arte)

(Expoziții, spectacole, concerte, publicații, filme, înregistrări) Nu este cazul

Criteriul II – Prestigiu profesional

1. Citări ale articolelor ISI listate la Criteriul I

Title: **Deposition of CdS thin films by nonstationary electrochemical techniques**

Author(s): Ilea, P; Dorneanu, SA; Popescu, IC. Source: **REVISTA DE CHIMIE** Volume: 56 Issue: 4

Pages: 382-386 Published: APR 2005

Results: **1**

1. Title: Influence of Preparative Conditions on Optical and Morfo-structural Properties of Zinc Sulphide Thin Films

Author(s): Stefan M, Popovici EJ, Baldea I, et al. Source: **REVISTA DE CHIMIE** Volume: **60** Issue: **4**

Pages: **342-346**, Published: **APR 2009**

Times Cited: **0**

2. Alte citări ale lucrărilor listate mai sus

Nu este cazul

3. Citări în perioada 2005-2009 ale articolelor anterioare anului 2005

Record 1

Title: Electrosynthesis of hydrogen peroxide by partial reduction of oxygen in alkaline media. Part II: Wall-jet ring disc electrode for electroreduction of dissolved oxygen on graphite and glassy carbon

Author(s): Ilea, P; Dorneanu, S; Popescu, IC

Source: **JOURNAL OF APPLIED ELECTROCHEMISTRY** Volume: **30** Issue: **2** Pages: **187-192**

Published: **FEB 2000**

Times Cited: **5 (din care 2 autocitari si 1 citare anterioara anului 2005) => 2**

1. Title: Simultaneous Anodic and Cathodic Production of Sodium Percarbonate in Aqueous Solution

Author(s): Ruiz EJ, Ortega-Borges R, Jurado JL, et al. Source: **ELECTROCHEMICAL AND SOLID STATE LETTERS** Volume: **12** Issue: **1** Pages: **E1-E4** Published: **2009**

Times Cited: **0**

2. Title: Promotion of oxygen reduction reaction on vitreous carbon electrode by DTAB

Author(s): Zhang XD, Li WS, Huang YJ, et al. Source: **ACTA PHYSICO-CHIMICA SINICA** Volume: **24** Issue: **4** Pages: **691-694** Published: **APR 2008**

Times Cited: **2**

Record 2

Title: The effect of some organic additives upon copper electrowinning from sulphate electrolytes

Author(s): Muresan, L; Varvara, S; Maurin, G, Dorneanu, S

Source: **HYDROMETALLURGY** Volume: **54** Issue: **2-3** Pages: **161-169** Published: **JAN 2000**

Times Cited: **23 (din care 1 autocitare si 8 citări anterioare anului 2005) => 14**

1. Title: Monitoring the quality of copper deposition by statistical and frequency analyses of electrochemical noise

Author(s): Safizadeh F, Lafront AM, Ghali E, et al. Source: **HYDROMETALLURGY** Volume: **100** Issue: **3-4** Pages: **87-94** Published: **JAN 2010**

Times Cited: **0**

2. Title: Potentiodynamic and galvanostatic investigations of copper deposition from sulphate electrolytes containing large amount of zinc

Author(s): Hodjaoglu GA, Hrussanova AT, Ivanov IS Source: **BULGARIAN CHEMICAL COMMUNICATIONS** Volume: **41** Issue: **3** Pages: **330-335** Published: **2009**

Times Cited: **0**

3. Title: Effects of ionic liquid additive [BMIM]HSO₄ on copper electro-deposition from acidic sulfate electrolyte

Author(s): Zhang QB, Hua YX, Wang YT, et al. Source: **HYDROMETALLURGY** Volume: **98** Issue: **3-4** Pages: **291-297** Published: **SEP 2009**

Times Cited: **0**

4. Title: Influence of organic additives on the initial stages of copper electrode position on polycrystalline platinum
Author(s): Quinet M, Lallemand F, Ricq L, et al. Source: **ELECTROCHIMICA ACTA** Volume: **54** Issue: **5**
Pages: **1529-1536** Published: **FEB 1 2009**
Times Cited: **0**
5. Title: SERS and EQCM studies on the effect of allyl thiourea on copper dissolution and deposition in aqueous sulfuric acid
Author(s): Chen GL, Lin H, Lu JH, et al. Source: **JOURNAL OF APPLIED ELECTROCHEMISTRY** Volume: **38** Issue: **11** Pages: **1501-1508** Published: **NOV 2008**
Times Cited: **0**
6. Title: Inhibition behavior of some new mixed additives upon copper electrowinning
Author(s): Yu RL, Liu QM, Qiu GZ, et al. Source: **TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA** Volume: **18** Issue: **5** Pages: **1280-1284** Published: **OCT 2008**
Times Cited: **0**
7. Title: The influence of thiourea on copper electrodeposition: Adsorbate identification and effect on electrochemical nucleation
Author(s): Kang MS, Kim SK, Kim K, et al. Source: **THIN SOLID FILMS** Volume: **516** Issue: **12** Pages: **3761-3766** Published: **APR 30 2008**
Times Cited: **3**
8. Title: Prediction of the electrodeposition process behavior with the gravity or acceleration value at continuous and discrete scale
Author(s): Mandin P, Cense JM, Georges B, et al.
Conference Information: 4th International Conference on Electrochemical Processing of Tailored Materials (EPTM 2005), OCT 03-05, 2005 Kyoto Univ, Kyoto, JAPAN Source: **ELECTROCHIMICA ACTA** Volume: **53** Issue: **1**
Pages: **233-244** Published: **NOV 20 2007**
Times Cited: **0**
9. Title: Relationship between hardness and grain size in electrodeposited copper films
Author(s): Hakamada M, Nakamoto Y, Matsumoto H, et al. Source: **MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING** Volume: **457** Issue: **1-2** Pages: **120-126** Published: **MAY 25 2007**
Times Cited: **5**
10. Title: The use of rotating cylinder electrode to study the effect of 1,3-dihydroxypropane on the production of copper powder
Author(s): Soliman HMA, Abdel-Rahman HH Source: **JOURNAL OF THE BRAZILIAN CHEMICAL SOCIETY** Volume: **17** Issue: **4** Pages: **705-714** Published: **JUL-AUG 2006**
Times Cited: **3**
11. Title: Aspects of copper electrodeposition from acidic sulphate solutions in presence of thiourea
Author(s): Tantavichet N, Pritzker MD Source: **TRANSACTIONS OF THE INSTITUTE OF METAL FINISHING** Volume: **84** Issue: **1** Pages: **36-46** Published: **JAN 2006**
Times Cited: **1**
12. Title: Effect of thiourea during nickel electrodeposition from acidic sulfate solutions
Author(s): Mohanty US, Tripathy BC, Das SC, et al. Source: **METALLURGICAL AND MATERIALS TRANSACTIONS B-PROCESS METALLURGY AND MATERIALS PROCESSING SCIENCE** Volume: **36** Issue: **6** Pages: **737-741** Published: **DEC 2005**
Times Cited: **3**
13. Title: A novel process to control the surface roughness and resistivity of electroplated Cu using thiourea
Author(s): Kang MS, Kim SK, Kim JJ; Source: **JAPANESE JOURNAL OF APPLIED PHYSICS PART 1-REGULAR PAPERS BRIEF COMMUNICATIONS & REVIEW PAPERS** Volume: **44** Issue: **11** Pages: **8107-8109** Published: **NOV 2005**
Times Cited: **3**
14. Title: Effect of plating mode, thiourea and chloride on the morphology of copper deposits produced in acidic sulphate solutions
Author(s): Tantavichet N, Pritzker MD Source: **ELECTROCHIMICA ACTA** Volume: **50** Issue: **9** Pages: **1849-1861** Published: **MAR 1 2005**
Times Cited: **21**

Record 3

Title: Biosensors for life quality - Design, development and applications

Author(s): Castillo, J; Gaspar, S; Leth, S; Niculescu, M; Mortari, A; Bontidean, I; Soukharev, V; Dorneanu, SA; Ryabov, AD; Csöregi, E.

Source: **SENSORS AND ACTUATORS B-CHEMICAL** Volume: **102** Issue: **2** Pages: **179-194**

Published: **SEP 13 2004**

Times Cited: **55 (din care 2 autocitari si 1 citare anterioara anului 2005) => 52**

1. Title: An electrochemical peptide-based biosensing platform for HIV detection

Author(s): Gerasimov JY, Lai RY Source: **CHEMICAL COMMUNICATIONS** Volume: **46** Issue: **3** Pages: **395-397** Published: **2010**

Times Cited: **0**

2. Title: Towards Rational de novo Design of Peptides for Inorganic Interfaces

Author(s): Biggs MJ, Mijajlovic M

Conference Information: Nanotechnology Conference and Trade Show (Nanotech 2008), JUN 01-05, 2008 Boston, MA Source: **NSTI NANOTECH 2008, VOL 3, TECHNICAL PROCEEDINGS - MICROSYSTEMS, PHOTONICS, SENSORS, FLUIDICS, MODELING, AND SIMULATION** Pages: **666-669** Published: **2008**

Times Cited: **0**

3. Title: A rapid and selective method for monitoring the growth of coliforms in milk using the combination of amperometric sensor and reducing of methylene blue

Author(s): Lee YG, Wu HY, Hsu CL, et al. Source: **SENSORS AND ACTUATORS B-CHEMICAL** Volume: **141** Issue: **2** Pages: **575-580** Published: **SEP 7 2009**

Times Cited: **0**

4. Title: Application of Amperometric Biosensors for Analysis of Ethanol, Glucose, and Lactate in Wine

Author(s): Goriushkina TB, Soldatkin AP, Dzyadevych SV Source: **JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY** Volume: **57** Issue: **15** Pages: **6528-6535** Published: **AUG 12 2009**

Times Cited: **0**

5. Title: Enhancement of electrochemical properties of screen-printed carbon electrodes by oxygen plasma treatment

Author(s): Wang SC, Chang KS, Yuan CJ Source: **ELECTROCHIMICA ACTA** Volume: **54** Issue: **21** Pages: **4937-4943** Published: **AUG 30 2009**

Times Cited: **2**

6. Title: Interaction Between Tripeptide Gly-Gly-His and Cu²⁺ Probed by Microcantilevers

Author(s): Xu YM, Pan HQ, Wu SH, et al. Source: **CHINESE JOURNAL OF ANALYTICAL CHEMISTRY** Volume: **37** Issue: **6** Pages: **783-787** Published: **JUN 2009**

Times Cited: **0**

7. Title: Chitosan-Coated Wires: Conferring Electrical Properties to Chitosan Fibers

Author(s): Meyer WL, Liu Y, Shi XW, et al. Source: **BIOMACROMOLECULES** Volume: **10** Issue: **4** Pages: **858-864** Published: **APR 2009**

Times Cited: **3**

8. Title: Beyond Molecular Beacons: Optical Sensors Based on the Binding-Induced Folding of Proteins and Polypeptides

Author(s): Oh KJ, Cash KJ, Plaxco KW Source: **CHEMISTRY-A EUROPEAN JOURNAL** Volume: **15** Issue: **10** Pages: **2244-2251** Published: **2009**

Times Cited: **3**

9. Title: Dyes Assay for Measuring Physicochemical Parameters

Author(s): Moczko E, Meglinski IV, Bessant C, et al. Source: **ANALYTICAL CHEMISTRY** Volume: **81** Issue: **6** Pages: **2311-2316** Published: **MAR 15 2009**

Times Cited: **0**

10 Title: Polymer Based Urea Biosensors: A Brief Overview

Author(s): Ahuja T, Kumar D, Rajesh Source: **SENSOR LETTERS** Volume: **6** Issue: **5** Pages: **663-674** Published: **OCT 2008**

Times Cited: **0**

11. Title: Mycotoxin Detection Plays "Cops and Robbers": Cyclodextrin Chemosensors as Specialized Police?
 Author(s): Cozzini P, Ingletto G, Singh R, et al. Source: **INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES** Volume: **9** Issue: **12** Pages: **2474-2494** Published: **DEC 2008**
 Times Cited: **2**
12. Title: Biosensor Arrays for Environmental Pollutants Detection
 Author(s): Singh RP, Oh BK, Koo KK, et al. Source: **BIOCHIP JOURNAL** Volume: **2** Issue: **4** Pages: **223-234**
 Published: **DEC 20 2008**
 Times Cited: **2**
13. Title: An Electrochemical DNA Biosensor Developed on a Nanocomposite Platform of Gold and Poly(propyleneimine) Dendrimer
 Author(s): Arotiba O, Owino J, Songa E, et al. Source: **SENSORS** Volume: **8** Issue: **11** Pages: **6791-6809**
 Published: **NOV 2008**
 Times Cited: **1**
14. Title: Amperometric biosensors
 Author(s): Hristov SM
 Conference Information: National Conference of Sofia Electrochemical Days, 2007 BULGARIA Source: **BULGARIAN CHEMICAL COMMUNICATIONS** Volume: **40** Issue: **3** Pages: **204-210** Published: **2008**
 Times Cited: **0**
15. Title: The application of neoglycopeptides in the development of sensitive surface plasmon resonance-based biosensors
 Author(s): Maljaars CEP, de Souza AC, Halkes KM, et al. Source: **BIOSENSORS & BIOELECTRONICS** Volume: **24** Issue: **1** Pages: **60-65** Published: **SEP 15 2008**
 Times Cited: **3**
16. Title: Impact of spacers on the hybridization efficiency of mixed self-assembled DNA/alkanethiol films
 Author(s): Peeters S, Stakenborg T, Reekmans G, et al. Source: **BIOSENSORS & BIOELECTRONICS** Volume: **24** Issue: **1** Pages: **72-77** Published: **SEP 15 2008**
 Times Cited: **10**
17. Title: Sol-gel approach for development of the mesoporous structures for creation of the sensors and disposal of low molecular weight toxic substances from environmental objects
 Author(s): Starodub NF, Telbiz GM
 Conference Information: NATO Advanced Research Workshop n Sol-Gel Approaches to Materials for Pollution Control, Water Purification and Soil Remediation, OCT 25-27, 2007 Kyiv, UKRAINE Source: **SOL-GEL METHODS FOR MATERIALS PROCESSING - FOCUSING ON MATERIALS FOR POLLUTION CONTROL, WATER PURIFICATION, AND SOIL REMEDIATION** Book Series: **Nato Science for Peace and Security Series C - Environmental Security** Pages: **447-452** Published: **2008**
 Times Cited: **0**
18. Title: State of the art and perspectives on the use of environmental biosensors in Mexico
 Author(s): Castro-Ortiz LP, Pabello VML, Pietrini RV Source: **REVISTA INTERNACIONAL DE CONTAMINACION AMBIENTAL** Volume: **23** Issue: **1** Pages: **35-45** Published: **JAN-MAR 2007**
 Times Cited: **0**
19. Title: Nucleic acid biosensors for environmental pollution monitoring
 Author(s): Palchetti I, Mascini M Source: **ANALYST** Volume: **133** Issue: **7** Pages: **846-854** Published: **2008**
 Times Cited: **5**
20. Title: Protein in-mold patterning
 Author(s): Biancardo SBN, Pranov HJ, Larsen NB Source: **ADVANCED MATERIALS** Volume: **20** Issue: **10** Pages: **1825+** Published: **MAY 19 2008**
 Times Cited: **2**
21. Title: Effect of nanomaterials in platinum-decorated carbon nanotube paste-based electrodes for amperometric glucose detection
 Author(s): Me JN, Wang SY, Aryasomayajula L, et al. Source: **JOURNAL OF MATERIALS RESEARCH** Volume: **23** Issue: **5** Pages: **1457-1465** Published: **MAY 2008**
 Times Cited: **0**

22. Title: Fabrication of an integrated microfluidic device based on a heat-sensitive poly(N-isopropylacrylamide) polymer and micromachining protocols for programmed bio-molecular patterning
Author(s): Lee DS, Choi HG, Chung KH, et al. Source: **SENSORS AND ACTUATORS B-CHEMICAL** Volume: **130** Issue: **1** Pages: **150-157** Published: **MAR 14 2008**
Times Cited: **2**
23. Title: Stability of mixed PEO-thiol SAMs for biosensing applications
Author(s): Jans K, Bonroy K, De Palma R, et al. Source: **LANGMUIR** Volume: **24** Issue: **8** Pages: **3949-3954**
Published: **APR 15 2008**
Times Cited: **12**
24. Title: Electron transfer in amperometric biosensors
Author(s): Polohova V, Snejdarkova M Source: **CHEMICKE LISTY** Volume: **102** Issue: **3** Pages: **173-182**
Published: **2008**
Times Cited: **2**
25. Title: Fe₃O₄ magnetic nanoparticles as peroxidase mimetics and their applications in H₂O₂ and glucose detection
Author(s): Wei H, Wang E Source: **ANALYTICAL CHEMISTRY** Volume: **80** Issue: **6** Pages: **2250-2254**
Published: **MAR 15 2008**
Times Cited: **28**
26. Title: Amperometric lactate biosensors and their application in (sports) medicine, for life quality and wellbeing
Author(s): Nikolaus N, Strehlitz B Source: **MICROCHIMICA ACTA** Volume: **160** Issue: **1-2** Pages: **15-55**
Published: **JAN 2008**
Times Cited: **9**
27. Title: Embryonic stem cells biosensor and its application in drug analysis and toxin detection
Author(s): Liu Q, Cai H, Xiao L, et al. Source: **IEEE SENSORS JOURNAL** Volume: **7** Issue: **11-12** Pages: **1625-1631** Published: **NOV-DEC 2007**
Times Cited: **1**
28. Title: Study of conformational switching in polyaniline at solid surfaces using molecular simulation
Author(s): Mijajlovic M, Biggs MJ Source: **JOURNAL OF PHYSICAL CHEMISTRY C** Volume: **111** Issue: **43** Pages: **15839-15847** Published: **NOV 1 2007**
Times Cited: **5**
29. Title: Development of a microbial biosensor based on carbon nanotube (CNT) modified electrodes
Author(s): Timur S, Anik U, Odaci D, et al. Source: **ELECTROCHEMISTRY COMMUNICATIONS** Volume: **9** Issue: **7** Pages: **1810-1815** Published: **JUL 2007**
Times Cited: **28**
30. Title: Detection of heavy metal toxicity using cardiac cell-based biosensor
Author(s): Liu QJ, Cai H, Xu Y, et al. Source: **BIOSENSORS & BIOELECTRONICS** Volume: **22** Issue: **12**
Special Issue: **Sp. Iss. SI** Pages: **3224-3229** Published: **JUN 15 2007**
Times Cited: **8**
31. Title: Biological components of heavy metal biosensors
Author(s): Vopalensky P, Ruml T, Kotrba P Source: **CHEMICKE LISTY** Volume: **101** Issue: **6** Pages: **468-479**
Published: **2007**
Times Cited: **1**
32. Title: On use of the amber potential with the Langevin dipole method
Author(s): Mijajlovic M, Biggs MJ Source: **JOURNAL OF PHYSICAL CHEMISTRY B** Volume: **111** Issue: **26** Pages: **7591-7602** Published: **JUL 5 2007**
Times Cited: **1**
33. Title: Characterization of different diamond-like carbon electrodes for biosensor design
Author(s): Maalouf R, Chebib H, Saikali Y, et al. Source: **TALANTA** Volume: **72** Issue: **1** Pages: **310-314**
Published: **APR 15 2007**
Times Cited: **2**
34. Title: Synthesis and characterization of peptide nanostructures chemisorbed on gold

Author(s): Boutin JM, Richer J, Tremblay M, et al. Source: **NEW JOURNAL OF CHEMISTRY** Volume: **31**
Issue: **5** Pages: **741-747** Published: **2007**
Times Cited: **0**

35. Title: Design and application of a flow cell for carbon-film based electrochemical enzyme biosensors
Author(s): Barsan MM, Klincar J, Batic M, et al. Source: **TALANTA** Volume: **71** Issue: **5** Pages: **1893-1900**
Published: **MAR 30 2007**
Times Cited: **10**

36. Title: Characterization of a planar L-glutamate amperometric biosensor immobilized with a photo-crosslinkable polymer membrane
Author(s): Chang KS, Chang CK, Chou SF, et al. Source: **SENSORS AND ACTUATORS B-CHEMICAL**
Volume: **122** Issue: **1** Pages: **195-203** Published: **MAR 8 2007**
Times Cited: **1**

37. Title: Stability of a protein tethered to a surface
Author(s): Friedel M, Baumketner A, Shea JE Source: **JOURNAL OF CHEMICAL PHYSICS** Volume: **126**
Issue: **9** Article Number: **095101** Published: **MAR 7 2007**
Times Cited: **7**

38. Title: Glucose sensing based on NIR fluorescence of DNA-wrapped single-walled carbon nanotubes
Author(s): Karachevtsev VA, Glamazda AY, Leontiev VS, et al. Source: **CHEMICAL PHYSICS LETTERS**
Volume: **435** Issue: **1-3** Pages: **104-108** Published: **FEB 12 2007**
Times Cited: **12**

39. Title: Amperometric biosensors for detection of sugars based on the electrical wiring of different pyranose oxidases and pyranose dehydrogenases with osmium redox polymer on graphite electrodes
Author(s): Tasca F, Timur S, Ludwig R, et al.
Conference Information: 11th International Conference on Electroanalysis of the European-Society-for-Electroanalytical-Chemistry, JUN 11-15, 2006 Univ Bordeaux, Natl Engn Sch Chem & Phys, Bordeaux, FRANCE
Source: **ELECTROANALYSIS** Volume: **19** Issue: **2-3** Pages: **294-302** Published: **JAN 2007**
Times Cited: **13**

40. Title: Comparison of amperometric biosensors fabricated by palladium sputtering, palladium electrodeposition and Nafion/carbon nanotube casting on screen-printed carbon electrodes
Author(s): Lee CH, Wang SC, Yuan CJ, et al. Source: **BIOSENSORS & BIOELECTRONICS** Volume: **22**
Issue: **6** Pages: **877-884** Published: **JAN 15 2007**
Times Cited: **22**

41. Title: Bioelectrochemical evaluation of the total phenols content in olive oil mill wastewaters using a tyrosinase-colloidal gold-graphite-Teflon biosensor
Author(s): Mena ML, Carralero V, Gonzalez-Cortes A, et al. Source: **INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY** Volume: **87** Issue: **1** Pages: **57-65** Published: **JAN 15 2007**
Times Cited: **1**

42. Title: A novel system for environmental monitoring through a cooperative/synergistic scheme between bioindicators and biosensors
Author(s): Batzias F, Siontorou CG Source: **JOURNAL OF ENVIRONMENTAL MANAGEMENT** Volume: **82**
Issue: **2** Pages: **221-239** Published: **JAN 2007**
Times Cited: **5**

43. Title: Peptide modified electrodes as electrochemical metal ion sensors
Author(s): Chow E, Gooding JJ Source: **ELECTROANALYSIS** Volume: **18** Issue: **15** Pages: **1437-1448**
Published: **AUG 2006**
Times Cited: **16**

44. Title: Development of a piezoelectric immunosensor for the measurement of paclitaxel
Author(s): Pastorino L, Soumetz FC, Giacomini M, et al. Source: **JOURNAL OF IMMUNOLOGICAL METHODS** Volume: **313** Issue: **1-2** Pages: **191-198** Published: **JUN 30 2006**
Times Cited: **1**

45. Title: Application of the electrochemical concepts and techniques to amperometric biosensor devices

Author(s): Lojou E, Bianco P Source: **JOURNAL OF ELECTROCERAMICS** Volume: 16 Issue: 1 Pages: 79-91 Published: FEB 2006

Times Cited: 6

46. Title: Electrical wiring of pyranose oxidase with osmium redox polymers

Author(s): Timur S, Yigzaw Y, Gorton L Source: **SENSORS AND ACTUATORS B-CHEMICAL** Volume: 113 Issue: 2 Pages: 684-691 Published: FEB 27 2006

Times Cited: 20

47. Title: Bacterial sensors based on Acidithiobacillus ferrooxidans - Part I. Fe²⁺ and S₂O₃²⁻- determination

Author(s): Zlatev R, Magnin JP, Ozil P, et al. Source: **BIOSENSORS & BIOELECTRONICS** Volume: 21 Issue: 8 Pages: 1493-1500 Published: FEB 15 2006

Times Cited: 7

48. Title: Nanomagnets-from fundamental physics to biomedicine

Author(s): Tartaj P Source: **CURRENT NANOSCIENCE** Volume: 2 Issue: 1 Pages: 43-53 Published: FEB 2006

Times Cited: 21

49. Title: Third-generation biosensor for lactose based on newly discovered cellobiose dehydrogenase

Author(s): Stoica L, Ludwig R, Haltrich D, et al. Source: **ANALYTICAL CHEMISTRY** Volume: 78 Issue: 2 Pages: 393-398 Published: JAN 15 2006

Times Cited: 21

50. Title: DsRed as a highly sensitive, selective, and reversible fluorescence-based biosensor for both Cu⁺ and Cu²⁺ ions

Author(s): Sumner JP, Westerberg NM, Stoddard AK, et al. Source: **BIOSENSORS & BIOELECTRONICS** Volume: 21 Issue: 7 Pages: 1302-1308 Published: JAN 15 2006

Times Cited: 19

51. Title: Engineering a signal transduction mechanism for protein-based biosensors

Author(s): Kohn JE, Plaxco KW Source: **PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA** Volume: 102 Issue: 31 Pages: 10841-10845 Published: AUG 2 2005

Times Cited: 15

52. Title: Fabrication of a potentiometric/amperometric bifunctional enzyme microbiosensor

Author(s): Reddy KRC, Turcu F, Schulte A, et al. Source: **ANALYTICAL CHEMISTRY** Volume: 77 Issue: 15 Pages: 5063-5067 Published: AUG 1 2005

Times Cited: 2

Record 4

Title: NASICON membrane used as Na⁺-selective potentiometric sensor in steady state and transient hydrodynamic conditions

Author(s): Dorneanu, SA; Popescu, IC; Fabry, P

Conference Information: **9th International Meeting on Chemical Sensors**, Date: JUL 07-10, 2002 BOSTON MASSACHUSETTS

Source: **SENSORS AND ACTUATORS B-CHEMICAL** Volume: 91 Issue: 1-3 Pages: 67-75 Published: 2003

Times Cited: 7 (din care 1 autocitare) => 6

1. Title: Sulfadiazine-Potentiometric Sensors for Flow and Batch Determinations of Sulfadiazine in Drugs and Biological Fluids

Author(s): Kamel AH, Almeida SAA, Sales MGF, et al. Source: **ANALYTICAL SCIENCES** Volume: 25 Issue: 3 Pages: 365-371 Published: MAR 2009

Times Cited: 1

2. Title: Complex phosphates with the NASICON structure (M_x)A₂(PO₄)₃)

Author(s): Yaroslavtsev AB, Stenina IASource: **RUSSIAN JOURNAL OF INORGANIC CHEMISTRY** Volume: 51 Pages: S97-S116 Supplement: Suppl. 1 Published: JAN 2006

Times Cited: 0

3. Title: Synthesis and physico-chemical characterizations of the lithium-substituted NASICONS series with general formula $\text{Li}_{2.8}\text{Zr}_{2-y}\text{Si}_{1.8-4y}\text{P}_{1.2+4y}\text{O}_{12}$ where ($0 \leq y \leq 0.45$)

Author(s): Belam W, Essoumhi A, Satre P Source: **ZEITSCHRIFT FUR PHYSIKALISCHE CHEMIE-INTERNATIONAL JOURNAL OF RESEARCH IN PHYSICAL CHEMISTRY & CHEMICAL PHYSICS**

Volume: **221** Issue: **2** Pages: **225-234** Published: **2007**

Times Cited: **3**

4. Title: Flow injection potentiometric determination of clobutinol hydrochloride

Author(s): Issa YM, Zayed SIM

Conference Information: 1st Workshop on Validation of Robustness of Sensors and Bioassays for Screening Pollutants, DEC 02-03, 2004 Menorca, SPAIN Source: **TALANTA** Volume: **69** Issue: **2** Pages: **481-487**

Published: **APR 15 2006**

Times Cited: **2**

5. Title: Potentiometric flow injection analysis of drotaverine hydrochloride in pharmaceutical preparations

Author(s): Ibrahim H, Issa YM, Abu-Shawish HMS Source: **ANALYTICAL LETTERS** Volume: **38** Issue: **1**

Pages: **111-132** Published: **2005**

Times Cited: **7**

6. Title: Potentiometric flow injection analysis of mebeverine hydrochloride in serum and urine

Author(s): Ibrahim H, Issa YM, Abu-Shawish HMS Source: **JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS** Volume: **36** Issue: **5** Pages: **1053-1061** Published: **JAN 4 2005**

Times Cited: **11**

4. Distincții, premii și alte recunoașteri naționale și internaționale

Nu este cazul

5. Studenți naționali atrași (activități de coordonare științifică și didactică)

- Îndrumare lucrari de licență (număr lucrări susținute) = 2
- Îndrumare lucrări de disertație (număr lucrări susținute) = 3
- Doctoranzi **Nu este cazul**
- Post-doctoranzi (lista nominală) **Nu este cazul**

6. Studenți internaționali atrași (activități de coordonare științifică și didactică)

- Îndrumare lucrari de licență (număr lucrări susținute) = 0
- Îndrumare lucrări de disertație (număr lucrări susținute) = 0
- Doctoranzi **Nu este cazul**
- Post-doctoranzi **Nu este cazul**

7. Membru in comitetul de redacție la reviste ISI Nu este cazul

8. Membru in comitetul de redacție la reviste BDI Nu este cazul

9. Participări la programe/granturi de cercetare finanțate din sursă internațională (se menționează și valoarea) Nu este cazul

10. Participări la programe/granturi finanțate din sursă națională (se menționează și valoarea)

Sistem pilotat de calculator pentru monitorizarea unor cationi în fluide de interes biotehnologic și medical (SPICBIOCAT); BIOTECH-04-5-PDT-4760/2004; Director proiect Prof. I.C. Popescu; Valoare Partener UBB: 2005 = 50000 RON; 2006 = 63000 RON.

Chimie organometalica supramoleculara: de la design prin sinteza si structura la aplicatii (SUPRACOM); CEEEx-PC-D11-PT04-684-2005; Responsabil colectiv Prof. I.C. Popescu; Valoare Partener UBB: 2005 = 200000 RON; 2006 = 525000 RON; 2007 = 275000 RON.
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Organizarea, dezvoltarea și acreditarea Laboratorului de încercări chimice și fizice din cadrul ICEI al Universității „Babeș-Bolyai” din Cluj-Napoca, Proiect INFRAS 226/06.10.2004, Director proiect Prof. dr. ing. P. Ilea; Valoare: 2005 = 138000 RON; 2006 = 42000 RON.

Îndepărtarea și recuperarea unor metale grele din ape reziduale prin tehnici electrochimice și de schimb ionic, Grant CNCISIS-A-14/236. Director proiect Prof. dr. ing. P. Ilea; Valoare: 2005 = 30000 RON
--

Implementarea de noi metode de încercare în cadrul Centrului de Analize Fizico-Chimice în conformitate cu legislația UE privind protecția mediului, Contract CEEX M4 C2 nr. 154 / 10 august 2006, tema nr. 2655, Director proiect Prof. dr. ing. P. Ilea; Valoare: 2006 = 94110 RON; 2007 = 662190 RON; 2008 = 43700 RON.
Senzori și aparatura pentru controlul calitatii unor produse alimentare (SENSALIM); PN-II PARTENERIATE 71-098/2007; Director proiect Prof. I.C. Popescu; Valoare Partener UBB: 2007 = 72000 RON; 2008 = 281413 RON; 2009 = 97878 RON.
Materiale pe bază de calixarene cu proprietăți de recunoaștere a unor specii ionice și/sau moleculare de interes biologic și ecologic, Proiect PN II, Tip PC DC7 Nr. 71-062/2007, Responsabil colectiv Prof. I.C. Popescu; Valoare Partener UBB: 2007 = 25000 RON; 2008 = 30000 RON; 2009 = 20385 RON.
Materiale noi și tehnici neconvenționale de depoluare bazate pe reducere catodica” (DEPOCAT), Proiect PN II, Tip PCE-IDEI, Contract nr. 495/2009, Act adițional nr. 1/2009, Cod CNC SIS 2464, Director proiect Prof. dr. ing. P. Ilea; Valoare: 2009 = 120535 RON

11. Coordonări de programe/granturi finanțate din sursă internațională (se menționează și valoarea)

Nu este cazul

12. Coordonări de programe/granturi finanțate din sursă națională (se menționează și valoarea)

Nu este cazul

13. Profesor invitat la universitati de prestigiu, cu titlu oficial

Nu este cazul

14. Membru în comisii profesionale relevante, cu titlu oficial

Nu este cazul

15. Conferințe invitate internaționale

1. V. Andronic, C. Cotet, V. Danciu, **S.A. Dorneanu**, I.C. Popescu „Probing carbon nanostructured materials in composite electrodes development for electroanalytical measurements”, International ECHEMS Meeting “Electrochemistry in nanosciences”, Venetia, Italia, 30.06-03.07, **2005**
2. S. Balici, D. Tiotiu, **S.A. Dorneanu**, V. Andronic, I.C. Popescu, I. Benga, Gh. Benga, “Comparative Study of Intracellular and Extracellular Concentration of Na⁺, K⁺ and Ca²⁺ of Red Blood Cells”, The 2nd International Congress of Cellular and Molecular Biology and The 24th Annual Session of The Romanian Society for Cell Biology, Iasi, Romania, 07-10.06, **2006**
3. L. Varvari, **S.A. Dorneanu**, I.C. Popescu, „Calix[6]arene ester as Ionophore for Ion-Selective Electrodes”, Prezentare orală, ICAMS 2008 - 2nd International Conference on Advanced Materials and Systems, București, România, 23-24 Octombrie, **2008**
4. I. Szabo, **S.A. Dorneanu**, P. Ilea, C. Bolla, “Electrochemical reduction of NO₃⁻ and NO₂⁻ ions”, Prezentare orală, EMT – 14th International Conference on Chemistry, Cluj Napoca, România, 15.10. **2008**
5. F. Imre-Lucaci, **S.A. Dorneanu**, P. Ilea, „Recuperarea electrochimică a metalelor grele din deșeuri”, A IV-a Conferință Națională cu Participare Internațională „Coroziune și Protecție Anticorozivă”, Cluj Napoca, România, 24-26 septembrie, **2009**.
6. F. Bălaj, **S.A. Dorneanu**, P. Ilea, „Depoluarea electrochimică a apelor reziduale cu conținut de nitrați”, A IV-a Conferință Națională cu Participare Internațională „Coroziune și Protecție Anticorozivă”, Cluj Napoca, România, 24-26 septembrie, **2009**.
7. C. Vlaic, **S.A. Dorneanu**, P. Ilea, „Aplicațiile electrosintezei apei oxigenate în protecția mediului”, A IV-a Conferință Națională cu Participare Internațională „Coroziune și Protecție Anticorozivă”, Cluj Napoca, România, 24-26 septembrie, **2009**.

16. Membru în comitete de organizare sau științifice ale unor conferințe internaționale

Membru în Comitetul de Organizare al Conferinței Internaționale „Journées d’Electrochimie 2009”, Sinaia, România, 06-10 iulie, **2009**.

III. Realizare remarcabilă

În cadrul proiectului „Organizarea, dezvoltarea și acreditarea Laboratorului de încercări chimice și fizice din cadrul ICEI al Universității „Babeș-Bolyai” din Cluj-Napoca” (Proiect INFRAS 226/06.10.2004, Director proiect Prof. dr. ing. P. Ilea) s-a început organizarea și dotarea Centrului de Analize Fizico-Chimice (CAFC) de la Institutul de Cercetări Experimentale Interdisciplinare (ICEI) al UBB. În acest context, m-am implicat deosebit de activ în achiziția de noi echipamente (Spectrometru de absorbție Atomică cu generator de hidruri, pH-metru, Conductometru) și inițierea procesului de implementare a Sistemului Calității conform ISO 17025/2001. Activitatea a continuat cu sprijinul proiectului „Implementarea de noi metode de încercare în cadrul Centrului de Analize Fizico-Chimice în conformitate cu legislația UE privind protecția mediului” (Contract CEEEX M4 C2 nr. 154 / 10 august 2006, tema nr. 2655, Director proiect Prof. dr. ing. P. Ilea), cadru în care m-am implicat în achiziția de noi echipamente (Spectrometru de masă cu plasmă cuplată inductiv și timp de zbor (ICP-MS-TOF), Cuptor de grafit pentru Spectrometru de absorbție Atomică, oxigenometru, Ionometru, Analizor polarografic etc.) și definitivarea procesului de implementare a Sistemului Calității conform ISO 17025/2005. Ca rezultat al eforturilor depuse, CAFC a obținut, în iunie 2009, acreditarea RENAR. În urma acestui fapt, CAFC este capabil să ofere, atât colectivelor de cercetare din UBB cât și clienților externi, analize cu rezultate certificate pentru domeniile acreditate. Pe lângă impactul științific al exploatarea unor măsurători certificate, organizarea CAFC prezintă și un impact didactic, oferind studenților posibilitatea de a se instrui în exploatarea unor echipamente moderne și de înaltă performanță.

Data:

17.03.2010

Semnătura:

Lect. dr. Sorin-Aurel DORNEANU

Certific validitatea datelor prezentate

Sef de catedră,

Prof. dr. Liana-Maria MUREȘAN