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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.	TURDEAN Graziella Liana, conf. dr. ing
Facultatea, Catedra	Facultatea de chimie si inginerie chimica, Catedra de chimie fizica
Domeniul științific	Chimie
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### Criteriaul I – Output

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

Graziella L. Turdean, Ionel Catalin Popescu, Antonella Curulli, Giuseppe Palleschi, Iron(III) protoporphyrin IX – single-wall carbon nanotubes modified electrodes for hydrogen peroxide and nitrite detection, <i>Electrochim. Acta</i> , <b>2006</b> , 51, 6435-6441 (ISI 3.078/2008).	
Ioana Rotariu, Graziella L. TURDEAN, Fiammetta Kormos, Dan Macarovici, Gyula Tolnai, Ilona Felhosi, Peter Nagy, Laszlo Trif, Erika Kalman, The corrosion study of ZrO <sub>2</sub> coatings on metals, <i>Mater. Sci. Forum</i> , <b>2007</b> , 537-538, 247-254 (ISI=0.399/2005).	
Graziella L. TURDEAN, Marinella S. TURDEAN, Synergetic effect of organic solvents and paraoxon on the immobilized acetylcholinesterase, <i>Pesticide Biochemistry and Physiology</i> , <b>2008</b> , 90(2), 73-81 (ISI 1.276/2008).	
Laura MUREȘAN, Graziella Liana TURDEAN, Ionel Cătălin POPESCU Rhodium stabilized Prussian Blue–modified graphite electrodes for H <sub>2</sub> O <sub>2</sub> amperometric detection, <i>J. Applied Electrochemistry</i> , <b>2008</b> , 38, 349-355 (ISI 1.541/2008).	
Graziella Liana TURDEAN, Adrian PATRUT, Leontin DAVID and Ionel Catalin POPESCU, Electrochemical behaviour of a new triiron-substituted polyoxomolybdate, <i>J. Applied Electrochemistry</i> , <b>2008</b> , 38, 751-758 (ISI 1.541/2008).	
Sonia A. Spinean, G.L. Turdean, I. C. Popescu, Biosensor for amperometric detection of catechol based on mushroom tissue and a methylene green-Nafion modified electrode, <i>Stud. Univ. “Babes-Bolyai”, Chem.</i> , <b>2005</b> , L(1), 67-74.	
Graziella Liana TURDEAN, Camelia Fărcaș, Amelia F. Palcu, Marinella S. Turdean, Electrochemistry of iron (iii) protoporphyrin (ix) solution at graphite electrode, <i>Stud. Univ. “Babes-Bolyai”, Chem.</i> , <b>2008</b> , 53(1), 105-111.	

#### 2. Articole științifice publicate în ISI proceedings

Laura Mureșan, Szilveszter Gaspar, Graziella Turdean, Ionel Cătălin Popescu, <i>Os-Redox Polymer as Mediator for Glucose Detection</i> , Proceedings of the International Conference on Ecological Materials and Technologies Ed. Printech, <b>2008</b> , vol. 1, 61-63 (ISBN 978-606-521-079-0)	
Gábor Kovács, Laura Mureșan, Graziella Liana Turdean, Ionel Cătălin Popescu, Csaba Bolla, Modified electrodes for detection of glucose from wine, Proceedings of 14-th International Conference of Chemistry, Ed. Hungarian Technical Society of Transylvania, Cluj-Napoca, ( <b>2008</b> ), 70-76 (ISSN 1843-6293)	

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

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

### 5. Cărți științifice publicate în edituri internaționale

G. L. TURDEAN, "Acetylcholinesterase or Butyrylcholinesterase Amperometric biosensors for detection organophosphorus/carbamate pesticides in environmental area " in "Recent trends in Acetylcholinesterase System" (Editors: Dr. Mahira Parveen and Prof. Santosh Kumar), IOS Press, Netherlands, 2005, pp. 196 - 245 (ISSN 0929-6743).	
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### 6. Cărți științifice publicate în edituri naționale acreditate

Graziella TURDEAN, Sarmiza E. Stanca, I.C. Popescu, "Biosenzori amperometrici. Teorie si aplicatii», Presa Universitara Clujana, 2005, 244 p (ISBN 973-610-359-5).	
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### 7. Editor de volume publicate în edituri naționale și internaționale

### 8. Brevete internaționale

### 9. Brevete naționale

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

### 11. Realizări artistice naționale și internaționale (Domeniul Arte)

(Expoziții, spectacole, concerte, publicații, filme, înregistrări)

## Criteriaul II – Prestigiu profesional

### 1. Citări ale articolelor ISI listate la Criteriaul I

1. Turdean, Graziella L.; Turdean, Marinella S. <b>Synergetic effect of organic solvents and paraoxon on the immobilized acetylcholinesterase.</b> Pesticide Biochemistry and Physiology (2008), 90(2), 73-81. CODEN: PCBPBS ISSN:0048-3575. CAN 148:277912 AN 2008:89802 CAPLUS	1. Buchanan, Ian; Liang, H. C.; Khan, Waqar; Liu, Zengkai; Singh, Ranveer; Ikehata, Keisuke; Chelme-Ayala, Pamela. <b>Pesticides and herbicides [in the environment].</b> Water Environment Research (2009), 81(10), 1731-1816. CODEN: WAERED ISSN:1061-4303. CAN 152:44031 AN 2009:1346348 CAPLUS <a href="http://www.scopus.com/record/display.url?eid=2-s2.0-74749109273&amp;origin=resultslist&amp;sort=plf-f&amp;cite=2-s2.0-38149107667&amp;src=s&amp;imp=t&amp;sid=Ms6_-R_qabOTb2Id1hx31D1%3a380&amp;sot=cite&amp;sdt=a&amp;sl=0&amp;relpos=0&amp;relpos=0">http://www.scopus.com/record/display.url?eid=2-s2.0-74749109273&amp;origin=resultslist&amp;sort=plf-f&amp;cite=2-s2.0-38149107667&amp;src=s&amp;imp=t&amp;sid=Ms6_-R_qabOTb2Id1hx31D1%3a380&amp;sot=cite&amp;sdt=a&amp;sl=0&amp;relpos=0&amp;relpos=0</a>
	2. Sun, Kai; Qiu, Jingxia; Fang, Keming; Zhang, Wangyao; Miao, Yuqing. <b>Square wave voltammetry assay of organophosphorus inhibition on cholinesterase in two phases of isooctane/water.</b> Electrochemistry Communications (2009), 11(5), 1022-1025. CODEN: ECCMF9 ISSN:1388-2481. CAN 151:563944 AN 2009:507790 CAPLUS <a href="http://www.scopus.com/record/display.url?eid=2-s2.0-65049088093&amp;origin=resultslist&amp;sort=plf-f&amp;cite=2-s2.0-38149107667&amp;src=s&amp;imp=t&amp;sid=Ms6_-R_qabOTb2Id1hx31D1%3a380&amp;sot=cite&amp;sdt=a&amp;sl=0&amp;relpos=1&amp;relpos=1">http://www.scopus.com/record/display.url?eid=2-s2.0-65049088093&amp;origin=resultslist&amp;sort=plf-f&amp;cite=2-s2.0-38149107667&amp;src=s&amp;imp=t&amp;sid=Ms6_-R_qabOTb2Id1hx31D1%3a380&amp;sot=cite&amp;sdt=a&amp;sl=0&amp;relpos=1&amp;relpos=1</a>
	3. Pietsch, Markus; Christian, Leonie; Inhester, Therese; Petzold, Susanne; Guetschow, Michael. <b>Kinetics of inhibition of acetylcholinesterase in the presence of acetoneitrile.</b> FEBS Journal (2009), 276(8), 2292-2307. CODEN: FJEOAC ISSN:1742-464X. CAN 151:26536 AN 2009:446445 CAPLUS <a href="http://www.scopus.com/record/display.url?eid=2-s2.0-63049094904&amp;origin=resultslist&amp;sort=plf-f&amp;cite=2-s2.0-38149107667&amp;src=s&amp;imp=t&amp;sid=Ms6_-R_qabOTb2Id1hx31D1%3a380&amp;sot=cite&amp;sdt=a&amp;sl=0&amp;relpos=2&amp;relpos=2">http://www.scopus.com/record/display.url?eid=2-s2.0-63049094904&amp;origin=resultslist&amp;sort=plf-f&amp;cite=2-s2.0-38149107667&amp;src=s&amp;imp=t&amp;sid=Ms6_-R_qabOTb2Id1hx31D1%3a380&amp;sot=cite&amp;sdt=a&amp;sl=0&amp;relpos=2&amp;relpos=2</a>
	4. Valdes-Ramirez, G.; Gutierrez, M.; del Valle, M.; Ramirez-Silva, M. T.; Fournier, D.; Marty, J.-L. <b>Automated resolution of dichlorvos and methylparaoxon pesticide mixtures employing a Flow Injection system with an inhibition electronic tongue.</b> Biosensors & Bioelectronics (2009), 24(5), 1103-1108. CODEN: BBIOE4 ISSN:0956-5663. CAN 150:368081 AN 2009:44358 CAPLUS <a href="http://www.scopus.com/record/display.url?eid=2-s2.0-58149150036&amp;origin=resultslist&amp;sort=plf-f&amp;cite=2-s2.0-58149150036&amp;origin=resultslist&amp;sort=plf-f&amp;cite=2-s2.0-">http://www.scopus.com/record/display.url?eid=2-s2.0-58149150036&amp;origin=resultslist&amp;sort=plf-f&amp;cite=2-s2.0-</a>

	38149107667&src=s&imp=t&sid=Ms6_- R_qabOTb2Id1hx31D1%3a380&sot=cite&sdt=a&sl=0&relpos=3&relpos=3
	5. Valdes-Ramirez, Gabriela; Cortina, Montserrat; Ramirez-Silva, Maria Teresa; Marty, Jean-Louis. <b>Acetylcholinesterase-based biosensors for quantification of carbofuran, carbaryl, methylparaoxon, and dichlorvos in 5% acetonitrile.</b> Analytical and Bioanalytical Chemistry (2008), 392(4), 699-707. CODEN: ABCNBP ISSN:1618-2642. CAN 149:446559 AN 2008:1178958 CAPLUS <a href="http://www.scopus.com/record/display.url?eid=2-s2.0-52349086790&amp;origin=resultslist&amp;sort=plf-f&amp;cite=2-s2.0-38149107667&amp;src=s&amp;imp=t&amp;sid=Ms6_-">http://www.scopus.com/record/display.url?eid=2-s2.0-52349086790&amp;origin=resultslist&amp;sort=plf-f&amp;cite=2-s2.0-38149107667&amp;src=s&amp;imp=t&amp;sid=Ms6_-</a> R_qabOTb2Id1hx31D1%3a380&sot=cite&sdt=a&sl=0&relpos=4&relpos=4
2. Turdean, Graziella Liana; Patrut, Adrian; David, Leontin; Popescu, Ionel Catalin. <b>Electrochemical behavior of a new triiron-substituted polyoxomolybdate.</b> Journal of Applied Electrochemistry (2008), 38(6), 751-758. CODEN: JAELBJ ISSN:0021-891X. CAN 151:324273 AN 2008:566690 CAPLUS	1. Hamidi, H.; Shams, E.; Yadollahi, B.; Esfahani, F. Kabiri. <b>Fabrication of carbon paste electrode containing [PF<sub>6</sub>W<sub>11</sub>O<sub>39</sub>]4- polyoxoanion supported on modified amorphous silica gel and its electrocatalytic activity for H<sub>2</sub>O<sub>2</sub> reduction.</b> Electrochimica Acta (2009), 54(12), 3495-3500. CODEN: ELCAAV ISSN:0013-4686. CAN 150:550236 AN 2009:313040 CAPLUS <a href="http://www.scopus.com/record/display.url?eid=2-s2.0-61849114662&amp;origin=resultslist&amp;sort=plf-f&amp;cite=2-s2.0-43449120123&amp;src=s&amp;imp=t&amp;sid=Ms6_-">http://www.scopus.com/record/display.url?eid=2-s2.0-61849114662&amp;origin=resultslist&amp;sort=plf-f&amp;cite=2-s2.0-43449120123&amp;src=s&amp;imp=t&amp;sid=Ms6_-</a> R_qabOTb2Id1hx31D1%3a180&sot=cite&sdt=a&sl=0&relpos=0&relpos=0
3. Muresan, Laura; Turdean, Graziella Liana; Popescu, Ionel Catalin. <b>Rhodium stabilized Prussian Blue-modified graphite electrodes for H<sub>2</sub>O<sub>2</sub> amperometric detection.</b> Journal of Applied Electrochemistry (2008), 38(3), 349-355. CODEN: JAELBJ ISSN:0021-891X. CAN 150:224516 AN 2008:338756 CAPLUS	1. Fang, Bin; Gu, Aixia; Wang, Guangfeng; Li, Bo; Zhang, Cuihong; Fang, Yongyi; Zhang, Xiaojun. <b>Synthesis hexagonal □ -Ni(OH)<sub>2</sub> nanosheets for use in electrochemistry sensors.</b> Microchimica Acta (2009), 167(1-2), 47-52. CODEN: MIACAQ ISSN:0026-3672. CAN 152:110276 AN 2009:1339844 CAPLUS <a href="http://www.scopus.com/record/display.url?eid=2-s2.0-70350733482&amp;origin=resultslist&amp;sort=plf-f&amp;cite=2-s2.0-40849103010&amp;src=s&amp;imp=t&amp;sid=Ms6_-">http://www.scopus.com/record/display.url?eid=2-s2.0-70350733482&amp;origin=resultslist&amp;sort=plf-f&amp;cite=2-s2.0-40849103010&amp;src=s&amp;imp=t&amp;sid=Ms6_-</a> R_qabOTb2Id1hx31D1%3a360&sot=cite&sdt=a&sl=0&relpos=0&relpos=0
	2. Jia, Wenzhao; Guo, Min; Zheng, Zhe; Yu, Ting; Wang, Ying; Rodriguez, Edgar G.; Lei, Yu. <b>Vertically aligned CuO nanowires based electrode for amperometric detection of hydrogen peroxide.</b> Electroanalysis (2008), 20(19), 2153-2157. CODEN: ELANEU ISSN:1040-0397. CAN 149:416283 AN 2008:1257259 CAPLUS <a href="http://www.scopus.com/record/display.url?eid=2-s2.0-55449089676&amp;origin=resultslist&amp;sort=plf-f&amp;cite=2-s2.0-40849103010&amp;src=s&amp;imp=t&amp;sid=Ms6_-">http://www.scopus.com/record/display.url?eid=2-s2.0-55449089676&amp;origin=resultslist&amp;sort=plf-f&amp;cite=2-s2.0-40849103010&amp;src=s&amp;imp=t&amp;sid=Ms6_-</a> R_qabOTb2Id1hx31D1%3a360&sot=cite&sdt=a&sl=0&relpos=1&relpos=1
4. Rotariu, Ioana; Turdean, Graziella L.; Kormos, Fiammetta; Macarovici, Dan; Tolnai, Gyula; Felhosi, Ilona; Nagy, Peter; Trif, Laszlo; Kalman, Erika. <b>The corrosion study of ZrO<sub>2</sub> coatings on metals.</b> Materials Science Forum (2007), 537-538(Materials Science, Testing and Informatics III), 247-254. CODEN: MSFOEP ISSN:0255-5476. CAN 149:36219 AN 2007:325953 CAPLUS	1. Zakorchemna, I.; Carmona, N.; Zakroczymski, T. <b>Hydrogen permeation through sol-gel-coated iron during galvanostatic charging.</b> Electrochimica Acta (2008), 53(28), 8154-8160. CODEN: ELCAAV ISSN:0013-4686. CAN 149:520458 AN 2008:1079338 CAPLUS <a href="http://www.scopus.com/record/display.url?eid=2-s2.0-50649092019&amp;origin=resultslist&amp;sort=plf-f&amp;cite=2-s2.0-38449106286&amp;src=s&amp;imp=t&amp;sid=Ms6_-">http://www.scopus.com/record/display.url?eid=2-s2.0-50649092019&amp;origin=resultslist&amp;sort=plf-f&amp;cite=2-s2.0-38449106286&amp;src=s&amp;imp=t&amp;sid=Ms6_-</a> R_qabOTb2Id1hx31D1%3a400&sot=cite&sdt=a&sl=0&relpos=0&relpos=0
5. Turdean, Graziella L.; Popescu, Ionel Catalin; Curulli, Antonella; Paleschi, Giuseppe. <b>Iron(III) protoporphyrin IX-</b>	1. Khanova, L. A. <b>Redox reactions of dissolved substances on amalgamated platinum electrode modified with adsorbed porphyrin.</b> Russian Journal of Electrochemistry (2009), 45(10), 1206-1210. CODEN: RJELE3 ISSN:1023-1935. AN 2009:1382843 CAPLUS

<p><b>single-wall carbon nanotubes modified electrodes for hydrogen peroxide and nitrite detection.</b> Electrochimica Acta (2006), 51(28), 6435-6441. CODEN: ELCAAV ISSN:0013-4686. CAN 145:482631 AN 2006:870036 CAPLUS</p>	<p><a href="http://www.scopus.com/record/display.url?eid=2-s2.0-70449659801&amp;origin=resultslist&amp;sort=plf-f&amp;cite=2-s2.0-33747836592&amp;src=s&amp;imp=t&amp;sid=Ms6_-R_qabOTb2Id1hx31D1%3a440&amp;sot=cite&amp;sdt=a&amp;sl=0&amp;relpos=1&amp;relpos=1">http://www.scopus.com/record/display.url?eid=2-s2.0-70449659801&amp;origin=resultslist&amp;sort=plf-f&amp;cite=2-s2.0-33747836592&amp;src=s&amp;imp=t&amp;sid=Ms6_-R_qabOTb2Id1hx31D1%3a440&amp;sot=cite&amp;sdt=a&amp;sl=0&amp;relpos=1&amp;relpos=1</a></p>
	<p>2. Porras Gutierrez, Ana; Griveau, Sophie; Richard, Cyrille; Pailleret, Alain; Gutierrez Granados, Silvia; Bedioui, Fethi. <b>Hybrid Materials from Carbon Nanotubes, Nickel Tetrasulfonated Phthalocyanine and Thin Polymer Layers for the Selective Electrochemical Activation of Nitric Oxide in Solution.</b> Electroanalysis (2009), 21(21), 2303-2310. CODEN: ELANEU ISSN:1040-0397. AN 2009:1350935 CAPLUS  <a href="http://www.scopus.com/record/display.url?eid=2-s2.0-71449119788&amp;origin=resultslist&amp;sort=plf-f&amp;cite=2-s2.0-33747836592&amp;src=s&amp;imp=t&amp;sid=Ms6_-R_qabOTb2Id1hx31D1%3a440&amp;sot=cite&amp;sdt=a&amp;sl=0&amp;relpos=0&amp;relpos=0">http://www.scopus.com/record/display.url?eid=2-s2.0-71449119788&amp;origin=resultslist&amp;sort=plf-f&amp;cite=2-s2.0-33747836592&amp;src=s&amp;imp=t&amp;sid=Ms6_-R_qabOTb2Id1hx31D1%3a440&amp;sot=cite&amp;sdt=a&amp;sl=0&amp;relpos=0&amp;relpos=0</a></p>
	<p>3. Kumar, Annamalai Senthil; Sornambikai, Sundaram. <b>Selective amperometric sensing of hydrogen peroxide with Nafion/copper particulates chemically modified electrode.</b> Indian Journal of Chemistry, Section A: Inorganic, Bio-inorganic, Physical, Theoretical &amp; Analytical Chemistry (2009), 48A(7), 940-945. CODEN: ICACEC ISSN:0376-4710. CAN 151:278178 AN 2009:1081889 CAPLUS  <a href="http://www.scopus.com/record/display.url?eid=2-s2.0-68949120956&amp;origin=resultslist&amp;sort=plf-f&amp;cite=2-s2.0-33747836592&amp;src=s&amp;imp=t&amp;sid=Ms6_-R_qabOTb2Id1hx31D1%3a440&amp;sot=cite&amp;sdt=a&amp;sl=0&amp;relpos=3&amp;relpos=3">http://www.scopus.com/record/display.url?eid=2-s2.0-68949120956&amp;origin=resultslist&amp;sort=plf-f&amp;cite=2-s2.0-33747836592&amp;src=s&amp;imp=t&amp;sid=Ms6_-R_qabOTb2Id1hx31D1%3a440&amp;sot=cite&amp;sdt=a&amp;sl=0&amp;relpos=3&amp;relpos=3</a></p>
	<p>4. Salavati-Niasari, Masoud; Bazarganipour, Mehdi. <b>Synthesis, characterization and alcohol oxidation properties of multi-wall carbon nanotubes functionalized with a cobalt(II) Schiff base complex.</b> Transition Metal Chemistry (Dordrecht, Netherlands) (2009), 34(6), 605-612. CODEN: TMCHDN ISSN:0340-4285. AN 2009:966798 CAPLUS  <a href="http://www.scopus.com/record/display.url?eid=2-s2.0-68849128551&amp;origin=resultslist&amp;sort=plf-f&amp;cite=2-s2.0-33747836592&amp;src=s&amp;imp=t&amp;sid=Ms6_-R_qabOTb2Id1hx31D1%3a440&amp;sot=cite&amp;sdt=a&amp;sl=0&amp;relpos=2&amp;relpos=2">http://www.scopus.com/record/display.url?eid=2-s2.0-68849128551&amp;origin=resultslist&amp;sort=plf-f&amp;cite=2-s2.0-33747836592&amp;src=s&amp;imp=t&amp;sid=Ms6_-R_qabOTb2Id1hx31D1%3a440&amp;sot=cite&amp;sdt=a&amp;sl=0&amp;relpos=2&amp;relpos=2</a></p>
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#### 4. Distincții, premii și alte recunoașteri naționale și internaționale

<p><b>2001 nominalizare</b> la premiul Prix du groupe francais de bioelectrochimie” pentru tineri cercetatori, acordat la Journées d’electrochimie, 3-6 iunie 2001, Marrakech, Maroc.</p>	
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#### 5. Studenți naționali atrași (activități de coordonare științifică și didactică)

- Îndrumare lucrari de licență (număr lucrări susținute)
- Îndrumare lucrări de disertație (număr lucrări susținute)
- Doctoranzi (lista nominală a doctoranzilor înmatriculați resp. lista nominală a tezelor susținute)
- Post-doctoranzi (lista nominală)

Iun 2005	Spinean Sonia	Electrozi de grafit modificați cu nanoparticule de platina inglobate in matrice de polipirrol amfifilic	Disertatie/master Electrochimie Aplicata	
Iun 2008	Kovacs Gabor	Electrozi modificați pentru detecția glucozei din vinuri	Disertatie Master Electrochimie Aplicata	
Iun 2008	Boar Sebastian	Biosenzor pe bază de tirozinază pentru detecția compușilor polifenolici din vinuri	Disertatie Master Electrochimie Aplicata	
Iun 2009	Mihalca Veturia Violeta	Biosenzor pe baza de tirozinaza pentru determinarea compusilor fenolici	Disertatie Master EA	
Febr 2005	Harangus Adriana	Studiul ferocenuului ca mediator in detectia h <sub>2</sub> O <sub>2</sub> la biosenzorul pe baza de glucozoxidaza pentru determinarea glucozei	Licenta/chimie	
Iun 2005	Cucui Mihaela	Biosenzor amperometric pentru detectia glucozei	Licenta /Chimie	
Iun 2007	Samsodean Simona	Biosenzor amperometric pentru detecția glucozei	Licenta/Ing IB	
Iun 2007	Kovacs Gabor	Electrod modificat cu hemoglobina pentru detectia apei oxigenate si a nitritilor	Licenta/Chimie lb. maghiara	

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

- Îndrumare lucrari de licența (număr lucrări susținute)
- Îndrumare lucrări de disertație (număr lucrări susținute)
- Doctoranzi (lista nominală a doctoranzilor înmatriculați resp. lista nominală a tezelor susținute)
- Post-doctoranzi (lista nominală)

#### 7. Membru in comitetul de redacție la reviste ISI

#### 8. Membru in comitetul de redacție la reviste BDI

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

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

Anul	Titlul grantului	Director	Finantator	Identificare tema/cod/an	Suma	
2005	Structuri supramoleculare cu activitate electrocatalitica	prof. dr. I.C. Popescu	CNCSIS-A	64/1716/2005	120 mil. lei	
2005	Comunicarea electrică în bio-nanostructuri cu activitate electrocatalitică	prof. dr.I.C. Popescu	ACADEMIA ROMANA	GAR 224/2005	48 mil. lei	
2006	Senzori electrochimici ion-selectivi pe baza de nanostructuri redox cu proprietari de	prof. dr. I.C. Popescu	ACADEMIA ROMANA			

	recunoastere ionica					
2007 mai	Membru in comisia de elaborare a documentatie pentru contractul de dotare a laboratoarelor didactice finantate din bugetul MEN (macro)	prof. dr. I.C. Popescu	MEN			30.000 Ron
2007 - 2010	Senzori si aparatura pentru controlul calitatii unor produse alimentare (SENSALIM)	prof. dr. I.C. Popescu	CNMP	PN II 71-098/2007		72.000 lei/ 2007 281.413 lei/ 2008 136.693 lei/ 2009
2008 mai	Membru in comisia de elaborare a documentatie pentru contractul de dotare a laboratoarelor didactice finantate din bugetul MEN (macro)	Prof. L. Muresan	MEN			34.000 RON
2008 mai	Membru in comisia de elaborare a documentatie pentru contractul de dotare a laboratoarelor didactice finantate din bugetul MEN (senzori)	Prof. I. Petru	MEN			35.000 RON

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

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

Anul	Titlul	Finantator	Identificare tema/cod/an	Suma
2005	Materiale electrolice "inteligente" cu structuri supramoleculare pentru detectia nitritilor	CNCSIS-A	86/375/2005	180 mil. lei = 18.000 ron
2006	Materiale electrolice "inteligente" cu structuri supramoleculare pentru detectia nitritilor	CNCSIS-A	86/375/2006	120 mil lei = 12.000 ron
2007	Materiale de electrod nanocomposite bazate pe nanotuburi de carbon pentru detectia nitritilor	CNCSIS A	34/1529/2007	60.000 ron
2008	Materiale de electrod nanocomposite bazate pe nanotuburi de carbon pentru detectia nitritilor	CNCSIS A	26/1529/2008	70.000 ron

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

**14. Membru în comisii profesionale relevante, cu titlu oficial**

Membru in comisia de doctorat Alexandra-Maria MICUTARU - Cercetari privind materialele functionale destinate bioelectrozilor, Universitatea Tehnica Cluj-Napoca, iul. 2009	
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**15. Conferințe invitate internaționale**

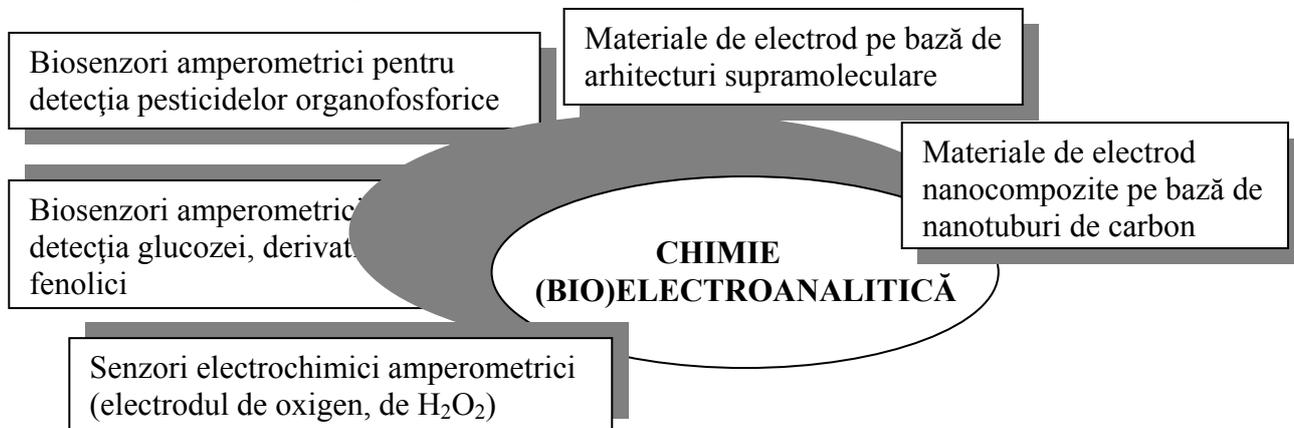
**16. Membru în comitete de organizare sau științifice ale unor conferințe internaționale**

Membru in comitetul de organizare al conferintei "Journées d'Electrochimie", 6 - 9 iul. 2009, Sinaia	
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### **III. Realizare remarcabilă**

(Descrieți într-o manieră cât mai accesibilă (în maximum 1 pagină) cea mai importantă realizare științifică/tehnică/artistică din ultimii 5 ani și impactul acesteia.)

Din punct de vedere al realizării și aplicațiilor, articole de la Criteriul I.1. pot fi grupate conform schemei de mai jos:



În continuare este detaliat unul dintre articolele reprezentative pentru domeniu:

**Graziella L. TURDEAN**, Ionel Cătălin Popescu, Antonella Curulli, Giuseppe Palleschi, *Iron(III) protoporphyrin IX – single-wall carbon nanotubes modified electrodes for hydrogen peroxide and nitrite detection*, *Electrochim. Acta*, **2006**, 51, 6435-6441.

Descoperirea fullerenele în 1985 și inventarea nanotuburilor de carbon în 1991 a deschis noi perspective pentru realizarea de nanomateriale de electrod bazate pe structura hexagonală a grafitului. Aceste materiale au proprietăți remarcabile, iar în consecință aplicațiile sunt multiple și diverse. În articol este prezentată caracterizarea electrochimică completă a unui nou material de electrod nanocompozit, bazat pe imobilizarea unei suspensii de hemină în nanotuburi de carbon funcționalizate cu –OH într-un film de Nafion. Rezultatele sunt în concordanță cu cele obținute prin imobilizarea hemoglobinei după alte modele experimentale, care au fost singurele prezentate în literatură până la data publicării articolului nostru. Acest material de electrod a fost aplicat în electrocataliza apei oxigenate și a nitriților, cu sensibilități mulțumitoare.

Data

Semnătura

Cluj Napoca, 15 mart. 2010

conf. dr. ing. Graziella L. TURDEAN

**Certific validitatea datelor prezentate**

Sef de catedră,

Prof. dr. Liana M. MURESAN