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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
Adresa paginii web personale	http://lcec.ro
Adresa e-mail	gturdean@chem.ubbcluj.ro

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> , 2006 , 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 ₂ coatings on metals, <i>Mater. Sci. Forum</i> , 2007 , 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> , 2008 , 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 ₂ O ₂ amperometric detection, <i>J. Applied Electrochemistry</i> , 2008 , 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> , 2008 , 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> , 2005 , 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> , 2008 , 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, 2008 , 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, (2008), 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 și aplicații», Presa Universitară 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. Synergetic effect of organic solvents and paraoxon on the immobilized acetylcholinesterase. 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. Pesticides and herbicides [in the environment]. Water Environment Research (2009), 81(10), 1731-1816. CODEN: WAERED ISSN:1061-4303. CAN 152:44031 AN 2009:1346348 CAPLUS http://www.scopus.com/record/display.url?eid=2-s2.0-74749109273&origin=resultslist&sort=plf-f&cite=2-s2.0-38149107667&src=s&imp=t&sid=Ms6_-R_qabOTb2Id1hx31D1%3a380&so=cite&sdt=a&sl=0&relpos=0&relpos=0
	2. Sun, Kai; Qiu, Jingxia; Fang, Keming; Zhang, Wangyao; Miao, Yuqing. Square wave voltammetry assay of organophosphorus inhibition on cholinesterase in two phases of isooctane/water. Electrochemistry Communications (2009), 11(5), 1022-1025. CODEN: ECCMF9 ISSN:1388-2481. CAN 151:563944 AN 2009:507790 CAPLUS http://www.scopus.com/record/display.url?eid=2-s2.0-65049088093&origin=resultslist&sort=plf-f&cite=2-s2.0-38149107667&src=s&imp=t&sid=Ms6_-R_qabOTb2Id1hx31D1%3a380&so=cite&sdt=a&sl=0&relpos=1&relpos=1
	3. Pietsch, Markus; Christian, Leonie; Inhester, Therese; Petzold, Susanne; Guetschow, Michael. Kinetics of inhibition of acetylcholinesterase in the presence of acetonitrile. FEBS Journal (2009), 276(8), 2292-2307. CODEN: FJEOAC ISSN:1742-464X. CAN 151:26536 AN 2009:446445 CAPLUS http://www.scopus.com/record/display.url?eid=2-s2.0-63049094904&origin=resultslist&sort=plf-f&cite=2-s2.0-38149107667&src=s&imp=t&sid=Ms6_-R_qabOTb2Id1hx31D1%3a380&so=cite&sdt=a&sl=0&relpos=2&relpos=2
	4. Valdes-Ramirez, G.; Gutierrez, M.; del Valle, M.; Ramirez-Silva, M. T.; Fournier, D.; Marty, J.-L. Automated resolution of dichlorvos and methylparaoxon pesticide mixtures employing a Flow Injection system with an inhibition electronic tongue. Biosensors & Bioelectronics (2009), 24(5), 1103-1108. CODEN: BBIOE4 ISSN:0956-5663. CAN 150:368081 AN 2009:44358 CAPLUS http://www.scopus.com/record/display.url?eid=2-s2.0-58149150036&origin=resultslist&sort=plf-f&cite=2-s2.0-38149107667&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. Acetylcholinesterase-based biosensors for quantification of carbofuran, carbaryl, methylparaoxon, and dichlorvos in 5% acetonitrile. Analytical and Bioanalytical Chemistry (2008), 392(4), 699-707. CODEN: ABCNBP ISSN:1618-2642. CAN 149:446559 AN 2008:1178958 CAPLUS http://www.scopus.com/record/display.url?eid=2-s2.0-52349086790&origin=resultslist&sort=plf-f&cite=2-s2.0-38149107667&src=s&imp=t&sid=Ms6_- R_qabOTb2Id1hx31D1%3a380&sot=cite&sdt=a&sl=0&relpos=4&relpos=4
2. Turdean, Graziella Liana; Patrut, Adrian; David, Leontin; Popescu, Ionel Catalin. Electrochemical behavior of a new triiron-substituted polyoxomolybdate. 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. Fabrication of carbon paste electrode containing [PF₆W₁₁O₃₉]4- polyoxoanion supported on modified amorphous silica gel and its electrocatalytic activity for H₂O₂ reduction. Electrochimica Acta (2009), 54(12), 3495-3500. CODEN: ELCAAV ISSN:0013-4686. CAN 150:550236 AN 2009:313040 CAPLUS http://www.scopus.com/record/display.url?eid=2-s2.0-61849114662&origin=resultslist&sort=plf-f&cite=2-s2.0-43449120123&src=s&imp=t&sid=Ms6_- R_qabOTb2Id1hx31D1%3a180&sot=cite&sdt=a&sl=0&relpos=0&relpos=0
3. Muresan, Laura; Turdean, Graziella Liana; Popescu, Ionel Catalin. Rhodium stabilized Prussian Blue-modified graphite electrodes for H₂O₂ amperometric detection. 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. Synthesis hexagonal □ -Ni(OH)₂ nanosheets for use in electrochemistry sensors. Microchimica Acta (2009), 167(1-2), 47-52. CODEN: MIACAQ ISSN:0026-3672. CAN 152:110276 AN 2009:1339844 CAPLUS http://www.scopus.com/record/display.url?eid=2-s2.0-70350733482&origin=resultslist&sort=plf-f&cite=2-s2.0-40849103010&src=s&imp=t&sid=Ms6_- 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. Vertically aligned CuO nanowires based electrode for amperometric detection of hydrogen peroxide. Electroanalysis (2008), 20(19), 2153-2157. CODEN: ELANEU ISSN:1040-0397. CAN 149:416283 AN 2008:1257259 CAPLUS http://www.scopus.com/record/display.url?eid=2-s2.0-55449089676&origin=resultslist&sort=plf-f&cite=2-s2.0-40849103010&src=s&imp=t&sid=Ms6_- 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. The corrosion study of ZrO₂ coatings on metals. 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. Hydrogen permeation through sol-gel-coated iron during galvanostatic charging. Electrochimica Acta (2008), 53(28), 8154-8160. CODEN: ELCAAV ISSN:0013-4686. CAN 149:520458 AN 2008:1079338 CAPLUS http://www.scopus.com/record/display.url?eid=2-s2.0-50649092019&origin=resultslist&sort=plf-f&cite=2-s2.0-38449106286&src=s&imp=t&sid=Ms6_- R_qabOTb2Id1hx31D1%3a400&sot=cite&sdt=a&sl=0&relpos=0&relpos=0
5. Turdean, Graziella L.; Popescu, Ionel Catalin; Curulli, Antonella; Paleschi, Giuseppe. Iron(III) protoporphyrin IX-single-wall carbon nanotubes	1. Khanova, L. A. Redox reactions of dissolved substances on amalgamated platinum electrode modified with adsorbed porphyrin. Russian Journal of Electrochemistry (2009), 45(10), 1206-1210. CODEN: RJELE3 ISSN:1023-1935. AN 2009:1382843 CAPLUS http://www.scopus.com/record/display.url?eid=2-s2.0-

<p>modified electrodes for hydrogen peroxide and nitrite detection. <i>Electrochimica Acta</i> (2006), 51(28), 6435-6441. CODEN: ELCAAV ISSN:0013-4686. CAN 145:482631 AN 2006:870036 CAPLUS</p>	<p>70449659801&origin=resultslist&sort=plf-f&cite=2-s2.0-33747836592&src=s&imp=t&sid=Ms6_-R_qabOTb2Id1hx31D1%3a440&sot=cite&sdt=a&sl=0&relpos=1&relpos=1</p>
	<p>2. Porras Gutierrez, Ana; Griveau, Sophie; Richard, Cyrille; Pailletet, Alain; Gutierrez Granados, Silvia; Bedioui, Fethi. Hybrid Materials from Carbon Nanotubes, Nickel Tetrasulfonated Phthalocyanine and Thin Polymer Layers for the Selective Electrochemical Activation of Nitric Oxide in Solution. <i>Electroanalysis</i> (2009), 21(21), 2303-2310. CODEN: ELANEU ISSN:1040-0397. AN 2009:1350935 CAPLUS http://www.scopus.com/record/display.url?eid=2-s2.0-71449119788&origin=resultslist&sort=plf-f&cite=2-s2.0-33747836592&src=s&imp=t&sid=Ms6_-R_qabOTb2Id1hx31D1%3a440&sot=cite&sdt=a&sl=0&relpos=0&relpos=0</p>
	<p>3. Kumar, Annamalai Senthil; Sornambikai, Sundaram. Selective amperometric sensing of hydrogen peroxide with Nafion/copper particulates chemically modified electrode. <i>Indian Journal of Chemistry, Section A: Inorganic, Bio-inorganic, Physical, Theoretical & Analytical Chemistry</i> (2009), 48A(7), 940-945. CODEN: ICACEC ISSN:0376-4710. CAN 151:278178 AN 2009:1081889 CAPLUS http://www.scopus.com/record/display.url?eid=2-s2.0-68949120956&origin=resultslist&sort=plf-f&cite=2-s2.0-33747836592&src=s&imp=t&sid=Ms6_-R_qabOTb2Id1hx31D1%3a440&sot=cite&sdt=a&sl=0&relpos=3&relpos=3</p>
	<p>4. Salavati-Niasari, Masoud; Bazarganipour, Mehdi. Synthesis, characterization and alcohol oxidation properties of multi-wall carbon nanotubes functionalized with a cobalt(II) Schiff base complex. <i>Transition Metal Chemistry (Dordrecht, Netherlands)</i> (2009), 34(6), 605-612. CODEN: TMCHDN ISSN:0340-4285. AN 2009:966798 CAPLUS http://www.scopus.com/record/display.url?eid=2-s2.0-68849128551&origin=resultslist&sort=plf-f&cite=2-s2.0-33747836592&src=s&imp=t&sid=Ms6_-R_qabOTb2Id1hx31D1%3a440&sot=cite&sdt=a&sl=0&relpos=2&relpos=2</p>
	<p>5. Liu, Jiwei; Qiu, Jingxia; Sun, Kai; Chen, Jin; Miao, Yuqing. Electrochemistry of hemin self-assembled from aqueous hexadecyltrimethylammonium bromide (CTAB) solution on single-wall-carbon-nanotube-modified glassy carbon electrodes. <i>Helvetica Chimica Acta</i> (2009), 92(3), 462-469. CODEN: HCACAV ISSN:0018-019X. CAN 150:508978 AN 2009:430512 CAPLUS http://www.scopus.com/record/display.url?eid=2-s2.0-65749097621&origin=resultslist&sort=plf-f&cite=2-s2.0-33747836592&src=s&imp=t&sid=Ms6_-R_qabOTb2Id1hx31D1%3a440&sot=cite&sdt=a&sl=0&relpos=5&relpos=5</p>
	<p>6. Zagal, Jose H.; Griveau, Sophie; Ozoemena, Kenneth I.; Nyokong, Tebello; Bedioui, Fethi. Carbon nanotubes, phthalocyanines and porphyrins: attractive hybrid materials for electrocatalysis and electroanalysis. <i>Journal of Nanoscience and Nanotechnology</i> (2009), 9(4), 2201-2214. CODEN: JNNOAR ISSN:1533-4880. CAN 152:178872 AN 2009:370353 CAPLUS http://www.scopus.com/record/display.url?eid=2-s2.0-66449128595&origin=resultslist&sort=plf-f&cite=2-s2.0-33747836592&src=s&imp=t&sid=Ms6_-R_qabOTb2Id1hx31D1%3a440&sot=cite&sdt=a&sl=0&relpos=4&relpos=4</p>
	<p>7. Teng, Y. J.; Zuo, S. H.; Lan, M. B. Direct electron transfer of Horseradish peroxidase on porous structure of screen-printed electrode. <i>Biosensors & Bioelectronics</i> (2009), 24(5), 1353-1357. CODEN: BBIOE4 ISSN:0956-5663. CAN 150:369029 AN 2009:44400 CAPLUS http://www.scopus.com/record/display.url?eid=2-s2.0-58149154816&origin=resultslist&sort=plf-f&cite=2-s2.0-33747836592&src=s&imp=t&sid=Ms6_-R_qabOTb2Id1hx31D1%3a440&sot=cite&sdt=a&sl=0&relpos=7&relpos=7</p>

	<p>8. Wang, Shengfu; Xie, Fen; Liu, Guodong. Direct electrochemistry and electrocatalysis of heme proteins on SWCNTs-CTAB modified electrodes. <i>Talanta</i> (2009), 77(4), 1343-1350. CODEN: TLNTA2 ISSN:0039-9140. CAN 150:162458 AN 2008:1511054 CAPLUS http://www.scopus.com/record/display.url?eid=2-s2.0-57249095819&origin=resultslist&sort=plf-f&cite=2-s2.0-33747836592&src=s&imp=t&sid=Ms6_- R_qabOTb2Id1hx31D1%3a440&sot=cite&sdt=a&sl=0&relpos=6&relpos=6</p>
	<p>9. Wang, Baozhen; Anzai, Jun-ichi; Gong, Weilei; Wang, Maoqing; Du, Xiaoyan. Preparation of hemin-immobilized layer-by-layer films on the surface of glassy carbon electrodes as hydrogen peroxide sensors. <i>Sensors and Materials</i> (2008), 20(5), 221-230. CODEN: SENMER ISSN:0914-4935. CAN 151:210882 AN 2008:1351385 CAPLUS http://www.scopus.com/record/display.url?eid=2-s2.0-54349101284&origin=resultslist&sort=plf-f&cite=2-s2.0-33747836592&src=s&imp=t&sid=Ms6_- R_qabOTb2Id1hx31D1%3a440&sot=cite&sdt=a&sl=0&relpos=8&relpos=8</p>
	<p>10. Wang, Baozhen; Du, Xiaoyan; Wang, Maoqing; Gong, Weilei; Anzai, Jun-ichi. A facile preparation of H₂O₂ sensors using layer-by-layer deposited thin films composed of poly(ethyleneimine) and carboxymethyl cellulose as matrices for immobilizing hemin. <i>Electroanalysis</i> (2008), 20(9), 1028-1031. CODEN: ELANEU ISSN:1040-0397. CAN 148:528489 AN 2008:593507 CAPLUS http://www.scopus.com/record/display.url?eid=2-s2.0-54349085976&origin=resultslist&sort=plf-f&cite=2-s2.0-33747836592&src=s&imp=t&sid=Ms6_- R_qabOTb2Id1hx31D1%3a440&sot=cite&sdt=a&sl=0&relpos=9&relpos=9</p>
	<p>11. Kachoosangi, Roohollah Torabi; Wildgoose, Gregory G.; Compton, Richard G. Room temperature ionic liquid carbon nanotube paste electrodes: overcoming large capacitive currents using rotating disk electrodes. <i>Electroanalysis</i> (2007), 19(14), 1483-1489. CODEN: ELANEU ISSN:1040-0397. CAN 148:340841 AN 2007:834123 CAPLUS http://www.scopus.com/record/display.url?eid=2-s2.0-34547592790&origin=resultslist&sort=plf-f&cite=2-s2.0-33747836592&src=s&imp=t&sid=Ms6_- R_qabOTb2Id1hx31D1%3a440&sot=cite&sdt=a&sl=0&relpos=11&relpos=11</p>
	<p>12. Langa, Fernando; Gomez-Escalonilla, M. Jose; de la Cruz, Pilar. Carbon nanotubes and porphyrins: an exciting combination for optoelectronic devices. <i>Journal of Porphyrins and Phthalocyanines</i> (2007), 11(5-6), 348-358. CODEN: JPPHFZ ISSN:1088-4246. CAN 147:510244 AN 2007:808679 CAPLUS http://www.scopus.com/record/display.url?eid=2-s2.0-34447319950&origin=resultslist&sort=plf-f&cite=2-s2.0-33747836592&src=s&imp=t&sid=Ms6_- R_qabOTb2Id1hx31D1%3a440&sot=cite&sdt=a&sl=0&relpos=10&relpos=10</p>
	<p>13. Francisco Silva, J.; Griveau, Sophie; Richard, Cyrille; Zagal, Jose H.; Bedioui, Fethi. Glassy carbon electrodes modified with single walled carbon nanotubes and cobalt phthalocyanine and nickel tetrasulfonated phthalocyanine: Highly stable new hybrids with enhanced electrocatalytic performances. <i>Electrochemistry Communications</i> (2007), 9(7), 1629-1634. CODEN: ECCMF9 ISSN:1388-2481. CAN 148:271378 AN 2007:654597 CAPLUS http://www.scopus.com/record/display.url?eid=2-s2.0-34250329175&origin=resultslist&sort=plf-f&cite=2-s2.0-33747836592&src=s&imp=t&sid=Ms6_- R_qabOTb2Id1hx31D1%3a440&sot=cite&sdt=a&sl=0&relpos=12&relpos=12</p>
	<p>14. Shahrokhian, Saeed; Zare-Mehrjardi, Hamid Reza. Application of thionine-Nafion supported on multi-walled carbon nanotube for preparation of a modified electrode in simultaneous voltammetric detection of dopamine and ascorbic acid. <i>Electrochimica Acta</i> (2007), 52(22), 6310-6317. CODEN: ELCAAV ISSN:0013-4686. CAN 147:225639 AN 2007:600972 CAPLUS http://www.scopus.com/record/display.url?eid=2-s2.0-</p>

	34249313996&origin=resultslist&sort=plf-f&cite=2-s2.0-33747836592&src=s&imp=t&sid=Ms6_- R_qabOTb2Id1hx31D1%3a440&sot=cite&sdt=a&sl=0&relpos=13&relpos=13
	15. Salimi, Abdollah; MamKhezri, Hussein; Hallaj, Rahman; Zandi, Shiva. Modification of glassy carbon electrode with multi-walled carbon nanotubes and iron(III)-porphyrin film: Application to chlorate, bromate and iodate detection. <i>Electrochimica Acta</i> (2007), 52(20), 6097-6105. CODEN: ELCAAV ISSN:0013-4686. CAN 147:175288 AN 2007:552621 CAPLUS http://www.scopus.com/record/display.url?eid=2-s2.0-34248365525&origin=resultslist&sort=plf-f&cite=2-s2.0-33747836592&src=s&imp=t&sid=Ms6_- R_qabOTb2Id1hx31D1%3a440&sot=cite&sdt=a&sl=0&relpos=14&relpos=14

2. Alte citări ale lucrărilor listate mai sus

Graziella TURDEAN , Sarmiza E. Stanca, I.C. Popescu, “ <i>Biosenzori amperometrici. Teorie si aplicatii</i> ”, Presa Universitara Clujana, 2005, 244 p. (ISBN 973-610-359-5).	Teodor Visan si colab., Electrochimie si coroziune pentru doctoranzii ELCOR , vol. 3, Ed. Printech, Bucuresti, 2006, ISBN (10) 973-718-673-7
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3. Citări în perioada 2005-2009 ale articolelor anterioare anului 2005

1. Turdean, Graziella Liana; Curulli, Antonella; Popescu, Ionel Catalin; Rosu, Cristina; Palleschi, Giuseppe. Electropolymerized architecture entrapping a trilacunary keggin-type polyoxometalate for assembling a glucose biosensor. <i>Electroanalysis</i> (2002), 14(22), 1550-1556. CODEN: ELANEU ISSN:1040-0397. CAN 139:65624 AN 2003:3066 CAPLUS	1. Tagowska, Magdalena; Palys, Barbara; Mazur, Maciej; Skompska, Magdalena; Jackowska, Krystyna. In situ deposition of poly(1,8-diaminonaphthalene): from thin films to nanometer-sized structures. <i>Electrochimica Acta</i> (2005), 50(12), 2363-2370. CODEN: ELCAAV ISSN:0013-4686. CAN 142:453345 AN 2005:310841 CAPLUS http://www.scopus.com/record/display.url?eid=2-s2.0-15444368114&origin=resultslist&sort=plf-f&cite=2-s2.0-0036869687&src=s&imp=t&sid=Ms6_- R_qabOTb2Id1hx31D1%3a500&sot=cite&sdt=a&sl=0&relpos=0&relpos=0
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2. Turdean, Graziella L.; Popescu, Ionel Catalin; Oniciu, Liviu; Thevenot, Daniel R. Sensitive detection of organophosphorus pesticides using a needle type amperometric acetylcholinesterase-based bioelectrode. Thiocholine electrochemistry and immobilized enzyme inhibition. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> (2002), 17(2), 107-115. CODEN: JEIMAZ ISSN:1475-	1. Liu, Guodong; Riechers, Shawn Lee; Mellen, Maria Consuelo; Lin, Yuehe. Sensitive electrochemical detection of enzymatically generated thiocholine at carbon nanotube modified glassy carbon electrode. <i>Electrochemistry Communications</i> (2005), 7(11), 1163-1169. CODEN: ECCMF9 ISSN:1388-2481. CAN 144:441340 AN 2005:1128432 CAPLUS http://www.scopus.com/record/display.url?eid=2-s2.0-27144468975&origin=resultslist&sort=plf-f&cite=2-s2.0-0036023120&src=s&imp=t&sid=Ms6_- R_qabOTb2Id1hx31D1%3a520&sot=cite&sdt=a&sl=0&relpos=8&relpos=8

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	<p>2. Amine, Aziz; Mohammadi, Hasna; Bourais, Ilhame; Palleschi, Giuseppe. Enzyme inhibition-based biosensors for food safety and environmental monitoring. <i>Biosensors & Bioelectronics</i> (2006), 21(8), 1405-1423. CODEN: BBIOE4 ISSN:0956-5663. CAN 144:428054 AN 2006:87984 CAPLUS http://www.scopus.com/record/display.url?eid=2-s2.0-31044455163&origin=resultslist&sort=plf-f&cite=2-s2.0-0036023120&src=s&imp=t&sid=Ms6_-R_qabOTb2Id1hx31D1%3a520&sot=cite&sdt=a&sl=0&relpos=7&relpos=7</p>
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	<p>4. Liu, Songqin; Lin, Baoping; Yang, Xiaodi; Zhang, Qianqian. Carbon-Nanotube-Enhanced Direct Electron-Transfer Reactivity of Hemoglobin Immobilized on Polyurethane Elastomer Film. <i>Journal of Physical Chemistry B</i> (2007), 111(5), 1182-1188. CODEN: JPCBFK ISSN:1520-6106. CAN 146:269175 AN 2007:41003 CAPLUS http://www.scopus.com/record/display.url?eid=2-s2.0-33847075009&origin=resultslist&sort=plf-f&cite=2-s2.0-0036023120&src=s&imp=t&sid=Ms6_-R_qabOTb2Id1hx31D1%3a520&sot=cite&sdt=a&sl=0&relpos=5&relpos=5</p>
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4. Turdean, Graziella; Mosneag, Claudia Silvia; Popescu, Ionel Catalin. Biosensor based on acetylcholinesterase for acetylthiocholine amperometric detection at low applied potential. ACH - Models in Chemistry (2000), 137(4), 519-531. CODEN: ACMCEI ISSN:1217-8969. CAN 134:190150 AN 2001:57873 CAPLUS	1. Joshi, Kanchan A.; Tang, Jason; Haddon, Robert; Wang, Joseph; Chen, Wilfred; Mulchandani, Ashok. A disposable biosensor for organophosphorus nerve agents based on carbon nanotubes modified thick film strip electrode. Electroanalysis (2005), 17(1), 54-58. CODEN: ELANEU ISSN:1040-0397. CAN 143:127943 AN 2005:124122 CAPLUS http://www.scopus.com/record/display.url?eid=2-s2.0-14344263650&origin=resultslist&sort=plf-f&cite=2-s2.0-0009950870&src=s&imp=t&sid=Ms6_- R_qabOTb2Id1hx31D1%3a780&sot=cite&sdt=a&sl=0&relpos=1&relpos=1
	2. Shulga, Olga V.; Palmer, Christopher. Detection of V-type nerve agent degradation products at electrodes modified by PPy/PQQ using CaCl₂ as supporting electrolyte. Analytical and Bioanalytical Chemistry (2006),

385(6), 1116-1123. CODEN: ABCNBP ISSN:1618-2642. CAN 145:264395 AN 2006:650496 CAPLUS http://www.scopus.com/record/display.url?eid=2-s2.0-33745599081&origin=resultslist&sort=plf-f&cite=2-s2.0-0009950870&src=s&imp=t&sid=Ms6_-R_qabOTb2Id1hx31D1%3a780&sot=cite&sdt=a&sl=0&relpos=0&relpos=0

4. Distincții, premii și alte recunoașteri naționale și internaționale

2001 nominalizare la premiul "Prix du groupe francais de bioelectrochimie" pentru tineri cercetatori, acordat la Journées d'electrochimie, 3-6 iunie 2001, Marrakech, Maroc.	
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5. Studenți naționali atrași (activități de coordonare științifică și didactică)

- Îndrumare lucrări 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 înglobate în matrice de polipirol amfifilic	Disertație/master Electrochimie Aplicata	
Iun 2008	Kovacs Gabor	Electrozi modificați pentru detecția glucozei din vinuri	Disertație Master Electrochimie Aplicata	
Iun 2008	Boar Sebastian	Biosenzor pe bază de tirozinază pentru detecția compușilor polifenolici din vinuri	Disertație Master Electrochimie Aplicata	
Iun 2009	Mihalca Veturia Violeta	Biosenzor pe baza de tirozinaza pentru determinarea compusilor fenolici	Disertație Master EA	
Febr 2005	Harangus Adriana	Studiul ferocenuului ca mediator în detecția H ₂ O ₂ la biosenzorul pe baza de glucozoxidaza pentru determinarea glucozei	Licența/chimie	
Iun 2005	Cucui Mihaela	Biosenzor amperometric pentru detecția glucozei	Licența /Chimie	
Iun 2007	Samsodean Simona	Biosenzor amperometric pentru detecția glucozei	Licența/Ing IB	
Iun 2007	Kovacs Gabor	Electrod modificat cu hemoglobina pentru detecția apei oxigenate și a nitritilor	Licența/Chimie lb. maghiara	

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

- Îndrumare lucrări 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)

7. Membru în comitetul de redacție la reviste ISI

8. Membru în 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 recunoaștere ionica	prof. dr. I.C. Popescu	ACADEMIA ROMANA			
2007 mai	Membru în comisia de elaborare a documentației pentru contractul de	prof. dr. I.C. Popescu	MEN		30.000 Ron	

	dotare a laboratoarelor didactice finantate din bugetul MEN (macro)					
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 electrodice "inteligente" cu structuri supramoleculare pentru detectia nitritilor	CNCSIS-A	86/375/2005	180 mil. lei = 18.000 ron	
2006	Materiale electrodice "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

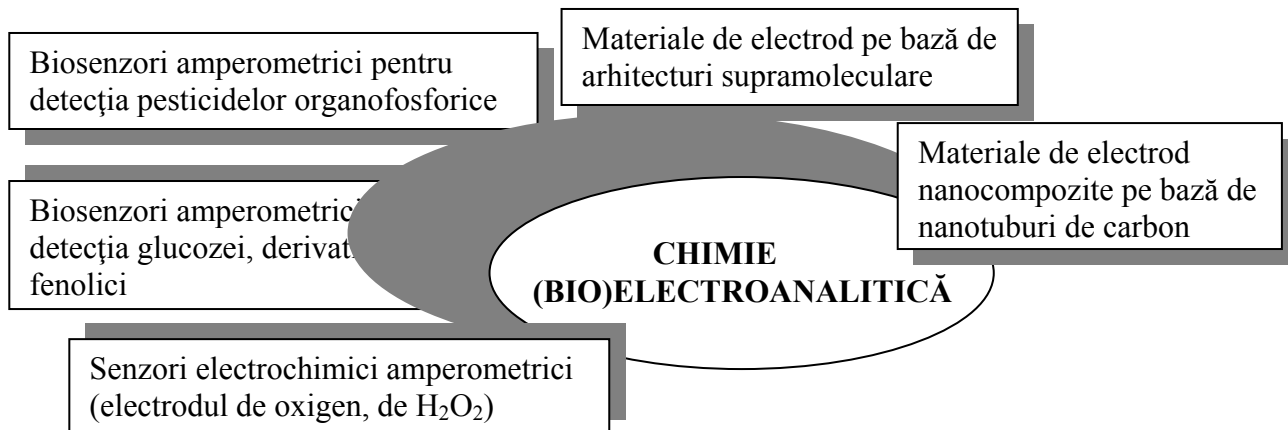
16. Membru în comitete de organizare sau științifice ale unor conferințe internaționale

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 fullerinelor 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