

Curriculum vitae Europass



Informații personale

Nume / Prenume **Apetrei / Constantin**
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Naționalitate(-tăți) Română
Data nașterii 26.01.1975

Domenii de competență profesională

Construirea de senzori și biosenzori; caracterizarea senzorilor și biosenzorilor; tehnici electrochimice și electroanalitice; dispozitive senzoriale electronice: *e-tongue*, *e-nose*, *e-eye*; chemometrie; sinteza și caracterizarea de noi compuși; spectroscopie UV-Vis; spectrometrie IR; HPLC; TLC; GC-MS; depunerea materialelor moleculare pe substraturi solide prin diferite metode: Langmuir-Blodgett, *Layer-by-Layer*, electrodepunere, sublimare în vid înalt, spin-coating etc.; chimia și analiza alimentelor.

Experiența profesională

Perioada	2015 până în prezent
Funcția sau postul ocupat	Profesor
Activități și responsabilități principale	Predare, conducerea și participarea în proiecte de cercetare, coordonarea studenților
Numele și adresa angajatorului	Facultatea de Științe și Mediu, Universitatea Dunărea de Jos din Galați, Strada Domnească, Nr. 111, www.sciences.ugal.ro
Tipul activității sau sectorul de activitate	Activități didactice și de cercetare
Perioada	2013 -2015
Funcția sau postul ocupat	Conferențiar
Activități și responsabilități principale	Predare, conducerea și participarea în proiecte de cercetare, coordonarea studenților
Numele și adresa angajatorului	Facultatea de Științe și Mediu, Universitatea Dunărea de Jos din Galați, Strada Domnească, Nr. 111, www.sciences.ugal.ro
Tipul activității sau sectorul de activitate	Activități didactice și de cercetare
Perioada	2008-2013
Funcția sau postul ocupat	Șef lucrări/Lector
Activități și responsabilități principale	Predare, elaborarea și participarea în proiecte de cercetare, coordonarea studenților
Numele și adresa angajatorului	Facultatea de Științe și Mediu, Universitatea Dunărea de Jos din Galați, Strada Domnească, Nr. 111, www.sciences.ugal.ro
Tipul activității sau sectorul de activitate	Activități didactice și de cercetare
Perioada	2006-2008
Funcția sau postul ocupat	Asistent universitar
Activități și responsabilități principale	Lucrări practice, participarea în proiecte de cercetare
Numele și adresa angajatorului	Facultatea de Științe, Universitatea Dunărea de Jos din Galați, Strada Domnească, Nr. 111, www.sciences.ugal.ro

Tipul activității sau sectorul de activitate	Activități didactice și de cercetare
Perioada	2002-2006 Universitatea din Valladolid, Spania
Funcția sau postul ocupat	Cercetător
Activități și responsabilități principale	Participarea în proiecte de cercetare
Numele și adresa angajatorului	Universitatea din Valladolid, Spania, www.uva.es
Tipul activității sau sectorul de activitate	Activități de cercetare
Perioada	2001-2002
Funcția sau postul ocupat	Asistent universitar
Activități și responsabilități principale	Lucrări practice, participarea în proiecte de cercetare
Numele și adresa angajatorului	Facultatea de Științe, Universitatea Dunărea de Jos din Galați, Strada Domnească, Nr. 111, www.sciences.ugal.ro
Tipul activității sau sectorul de activitate	Activități de cercetare
Perioada	1999-2001
Funcția sau postul ocupat	Preparator universitar
Activități și responsabilități principale	Lucrări practice, participarea în proiecte de cercetare
Numele și adresa angajatorului	Facultatea de Științe, Universitatea Dunărea de Jos din Galați, Strada Domnească, Nr. 111, www.sciences.ugal.ro
Tipul activității sau sectorul de activitate	Activități didactice și de cercetare

Educație și formare

Perioada	Octombrie 2015
Calificarea / diploma obținută	Abilitare în domeniul Chimie / Ordinul Ministrului nr. 5883/4.12.2015
Disciplinele principale studiate / competențe profesionale dobândite	Development of novel sensors and biosensors with applications in food analysis/ Conducător de doctorat în domeniul Chimie
Numele și tipul instituției de învățământ / furnizorului de formare	October 2015
Perioada	2011 (3.01.2011-31.03.2011)
Calificarea / diploma obținută	Postdoctorat în biotehnologii aplicate în industria alimentară
Disciplinele principale studiate / competențe profesionale dobândite	Managementul cercetării avansate, Cultura antreprenorială în biotehnologii, Tehnici informatice aplicate în biotehnologii, Aspecte de bioetică, Brevetarea rezultatelor și proprietatea intelectuală, Biotehnologii inovatoare: tehnici și metodologii
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea „Dunărea de Jos” din Galați, Facultatea de Știința și Ingineria Alimentelor, www.sia.ugal.ro
Perioada	1999-2007
Calificarea / diploma obținută	Doctor în Chimie
Disciplinele principale studiate / competențe profesionale dobândite	Senzori, Biosenzori, Electrochimie, Chimia alimentelor / Cercetător științific
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea „Dunărea de Jos” din Galați, Facultatea de Științe, www.sciences.ugal.ro
Perioada	1997-1999
Calificarea / diploma obținută	Master în Chimie Organică Fizică
Disciplinele principale studiate / competențe profesionale dobândite	Chimie Organică avansată, Electrochimie organică, Chimie cuantică avansată etc. / Profesor de Chimie, cercetător științific.
Numele și tipul instituției de învățământ / furnizorului de formare	Facultatea de Chimie, Universitatea Alexandru Ioan Cuza Iași, Bd. Copou, www.uaic.ro
Perioada	1993-1997
Calificarea / diploma obținută	Licențiat în Chimie și Fizică
Disciplinele principale studiate / competențe profesionale dobândite	Chimie anorganică, Chimie Fizică, Chimie Organică, Fizică mecanică, electricitate, teoretică etc. / Profesor de Chimie și Fizică, cercetător științific.
Numele și tipul instituției de învățământ / furnizorului de formare	Facultatea de Chimie, Universitatea Alexandru Ioan Cuza Iași, Bd. Copou, www.uaic.ro

Proiecte de cercetare

Manager de proiect

1. MANAGER PROIECT INDIVIDUAL DE CERCETARE

TITLUL PROIECTULUI INDIVIDUAL: „Study of food freshness by means of multisensor systems”

SURSA DE FINANȚARE: Universidad de Valladolid, Scholarship for researchers from other Universities in Valladolid University, Spain

DURATA: 3.07.2008-3.09.2008

2. MANAGER PROIECT INDIVIDUAL DE CERCETARE

TITLUL PROIECTULUI INDIVIDUAL: „Biosensors based on nanostructured hybrid materials with applications in food industry and for environment quality monitoring ”

SURSA DE FINANȚARE: Uniunea Europeană

Contract POSDRU/89/1.5/S/52432, “ORGANIZAREA ȘCOLII POSTDOCTORALE DE INTERES NAȚIONAL "BIOTEHNOLOGII APLICATE" CU IMPACT ÎN BIOECONOMIA ROMÂNEASCĂ” (SPD-BIOTECH)

DURATA: 1.04.2011-31.12.2011

3. MANAGER PROIECT DE CERCETARE

TITLUL PROIECTULUI: „Development of an electronic system based on electrochemical sensors and biosensors for the control of biogenic amines”

SURSA DE FINANȚARE: UEFISCDI

TIPUL DE PROIECT: PN-II-ID-PCE-2011-3, Contract numărul 39/2011

DURATA: 1.01.2012-30.07.2016

Membru în proiect

Proiecte europene

1. TITLUL PROIECTULUI: "Integrated sensor system for the organoleptic characterisation of wine (Wine Panel Test)".

SURSA DE FINANȚARE: Project CRAFT-1999-70722. Programme de "Quality of Life and Management of living resources"

PERIOADA: 1.07.2002-31.05.2004

2. TITLUL PROIECTULUI: "Food Safety and Quality monitoring with Microsystems (GOODFOOD)"

SURSA DE FINANȚARE: Commission European. Information Society Technologies (1ST)

Contract N°: IST-1-508774-1 P. VI Marco Program.

PERIOADA: 1.01.2004-1.01.2008

3. TITLUL PROIECTULUI: MPNS COST Action MP1407, Electrochemical processing methodologies and corrosion protection for device and systems miniaturization (e-MINDS), MC Substitute,

<http://www.e-minds.ch/the-project/cost-mp1407/>

PERIOADA: 2015-2018

Proiecte naționale (Spania)

1. TITLUL PROIECTULUI: "Diseno y construction de un sistema de sensores de olor, sabor y color para el analisis sensorial del aceite de oliva virgen"

SURSA DE FINANȚARE: CICYT (AGL2001-2104-C02-01)

PERIOADA: 1.06.2002 - 30.07.2004

2. TITLUL PROIECTULUI: "Influencia de las levaduras autoctonas en la vinificacion y crianza de vinos de D.O. Ribera del Duero: desarrollo de una metodologia analitica electronica para su evaluacion sensorial"

SURSA DE FINANȚARE: INIA VIN02/006/C2/1

PERIOADA: 1.06.2002 - 30.07.2005

3. TITLUL PROIECTULUI: "Aplicacion de un panel de cata electronico en la caracterizacion de vinos tintos tratados con sistemas alternatives a las barricas de roble"

SURSA DE FINANȚARE: Junta de Castilla y Leon. ITA CyL (VA-16/2005-02-08).

PERIOADA: 1.02. 2005 - 30 .07. 2006

4. TITLUL PROIECTULUI: "Analisis sensorial y fisico-quimico de la presencia de piojillo y acaros en jamones"

FUNDING ORGANIZATION: Centro Tecnologico CARTIF (Valladolid)

PERIOADA: 1.06. 2005 - 30.07.2006

5. TITLUL PROIECTULUI: "Diseno de un metodo analitico para la evaluacion de la frescura de peces (Tencas)"

SURSA DE FINANȚARE: Junta de Castilla y Leon. ITA CyL (VA-052A06)

PERIOADA: 18.07. 2006 - 31.12.2008

6. TITLUL PROIECTULUI: "Estudio de sistemas amortiguadores basadas en espumas metalicas"

SURSA DE FINANȚARE: ADE/J.C y L./ FEDER, Mecanizados Gines. Miranda de Ebro (Burgos), Spain

PERIOADA: 1.06. 2004 - 30.06.2005

7. TITLUL PROIECTULUI: "Componentes estructurales aeronauticos basados en espumas metalicas (diseno, fabricacion y ensayo)"
 SURSA DE FINANȚARE: ADE/JC y U PROFIT FIT-100100-2003-11, Mecanizados Gines. Miranda de Ebro (Burgos)
 PERIOADA: 1.07. 2005 - 31.12.2005
8. TITLUL PROIECTULUI: "Evaluacion de vinos tratados con sistemas alternativos a la barrica de roble. Estudio de su evolucion organoleptica, mediante un panel de cata electronico"
 SURSA DE FINANȚARE: MEC AGL2006-05501/ALI
 PERIOADA: 1.07. 2005 - 31.12.2009
9. TITLUL PROIECTULUI: "Desarrollo de una lengua bioelectrónica específica para el análisis de la maduración de uvas"
 SURSA DE FINANȚARE: MEC AGL2012-33535
 PERIOADA: 1.01. 2013 - 31.12.2015
10. TITLUL: "OPTIMIZACION DE NUEVOS PROCESOS EN LA INDUSTRIA ALIMENTARIA, BASADOS EN LA TECNOLOGIA HPCD (HIGH PRESSURE CARBON DIOXIDE), PARA PRESERVAR LA CALIDAD DE ALIMENTOS FRESCOS", CTQ2015-64396-R
 SURSA DE FINANȚARE: MEC: Programa Estatal de I+D+i Orientada a los Retos de la Sociedad
 PERIOADA: 2016 - 2018

Proiecte naționale (România)

1. TITLUL: „Development of a novel class of light nanostructured polymeric composites with electrical and magnetic properties with applications in aero-spatial industry”
 SURSA DE FINANȚARE: Grant CNCSIS tip A COD 514 / theme 1/ 2006
 PERIOADA: 1.01.2006-31.12.2006
2. TITLUL: „Obtaining of nickel nanowires electrodeposited on anodized nano-size cells structure of alumina”
 SURSA DE FINANȚARE: Grant CNCSIS, IDEI, ID_2290/2008
 PERIOADA: 21.01.2009-31.12.2009
3. TITLUL: „Development of a versatile fingerprinting system with applications in bitterness analysis of pharmaceuticals”
 SURSA DE FINANȚARE: PN-II-RU-TE-2014-4-1093, Contract: 40 / 01.10.2015
 PERIOADA: 1.10.2015-30.09.2017

Proiecte cu societăți economice

1. TITLUL: „ Activitatea antioxidantă și beneficiile pentru sănătate ale resveratrolului”
 SURSA DE FINANȚARE: SC ESCULAP SRL, contract nr. 669/16.12.2015
 PERIOADA: 6.12.2015-15.12.2016

Aptitudini și competențe personale

Limba(i) maternă(e) Română

Limba(i) străină(e) cunoscută(e)

Autoevaluare
 Nivel european (*)

Limba engleză

Limba spaniolă

Înțelegere		Vorbire		Scriere					
Ascultare		Citire		Participare la conversație		Discurs oral		Exprimare scrisă	
C2		C2		C2		C2		C2	
C2		C2		C2		C2		C2	

(*) [Nivelul Cadrului European Comun de Referință Pentru Limbi Străine](#)

Competențe și abilități sociale

Experiență în comunicarea cu studenții, cercetătorii și colegii; spirit de echipă; persoană organizată; abilități de abordare sintetică sau globală a unor probleme concrete; capacitate de a stabili și menține relații de lucru bune cu oameni din medii naționale și culturale diferite; capacitate de adaptare la medii multiculturale, obținută prin experiența de muncă în străinătate.

Competențe și aptitudini organizatorice	<p>Experiență în managementul și coordonarea echipei de cercetare în proiecte de cercetare științifică; coordonare a studenților pentru lucrări științifice și lucrări de finalizare a studiilor.</p> <p>Membru în comitetul organizatoric și secretar a 5 conferințe științifice: I Reunión Científica sobre aromas (2002), 9th European Conference on Organised Films (ECOF 2004), Al IX-lea Simpozion de Chimia Coloizilor și Suprafețelor (2008), The 10th International Conference on Colloids and Surfaces Chemistry, Galați (2011), International Conference of Physical Chemistry – ROMPHYSICHEM 16, (2016)</p>
Competențe și aptitudini tehnice	<p>Tehnici electroanalitice, tehnica Langmuir -Blodgett, tehnica UHV, tehnica spin-coating, <i>e-tongue</i>, <i>e-nose</i>, sinteză chimică, spectroscopie UV-VIS, spectroscopie IR, chimia și analiza alimentelor, metode chemometrice etc.</p>
Competențe și aptitudini de utilizare a calculatorului	<p>Microsoft Office, XLStat, CorelDraw, Matlab, The Unscrambler, Statistica etc.</p>
Alte competențe și aptitudini	<p>Recenzor al revistelor ISI/BDI: African Journal of Agricultural Research, Ain Shams Engineering Journal, Arabian Journal of Chemistry, Artificial Cells, Nanomedicine and Biotechnology, Carbon, Chemistry today (Chimica oggi), Chemosphere, Combinatorial Chemistry & High Throughput Screening, Computers and Electronics in Agriculture, Current Analytical Chemistry, Current Drug Delivery Journal, Current Medicinal Chemistry, Electrochimica Acta, Food Analytical Methods, Food Chemistry, Food Control, Food Research International, Frontiers in Bioengineering and Biotechnology - section Bionics and Biomimetics, IEEE Sensors Journal, Innovative Romanian Food Biotechnology, International Journal of Environmental Analytical Chemistry, International Journal of Food Properties, International Journal of Nanomedicine, Journal of Agricultural and Food Chemistry, Journal of Applied Research on Medicinal and Aromatic Plants, Journal of Electroanalytical Chemistry, Journal of Molecular Catalysis B: Enzymatic, Journal of Sensors Technology, Journal of Sensors, Journal of the American Oil Chemists' Society, Langmuir, LWT - Food Science and Technology, Materials Science and Engineering B, Materials Science and Engineering C, Measurement, Microbial Pathogenesis, Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry, Sensors and Actuators A, Physical, Sensors and Actuators B, Chemical, Sensors, Sensors-Interscience Journal, Synthetic Metals, Talanta, Trends in Food Science & Technology, Journal of Chemometrics.</p>
	<p>Expert evaluator:</p> <ul style="list-style-type: none"> - Unitatea Executivă pentru Finanțarea Învățământului Superior, a Cercetării, Dezvoltării și Inovării (UEFISCDI) - Autoritatea Națională pentru Cercetare Științifică (Romania) - FP7, H2020 (expert EX2006C106970) - NEWFELPRO (Croatia) - Managing Authority of the OP R & DI, Czech Republic - National Centre for Research and Development, Poland - Agencia Nacional de Evaluación y Prospectiva, Spain - MARTEC - Centre for Quality Assessment in Higher Education, Lithuania - COST - EVAL-INCO - Eranet – RU - Operational programme research and innovation, Slovacia
	<p>Membru al juriului la conferințe de inventică</p> <p>UGAL Invent 2014, http://invent.ugal.ro/Jury.html</p> <p>UGAL Invent 2015, http://invent.ugal.ro/Jury.html</p> <p>UGAL Invent 2017, http://www.invent.ugal.ro/2017Invent/ROJury2017.html</p>
	<p>Membru în comitete editoriale:</p> <ul style="list-style-type: none"> - Food Research International, http://www.journals.elsevier.com/food-research-international/editorial-board/ - Review of Catalysts, http://www.pakinsight.com/?ic=editorial-board&journal=96 <p>Guest Editor of Journal of Sensors, for the special issue "Sensors for Food and Beverage Analysis: E-nose and E-tongue Technology", (papers were included in regular journal)</p> <p>Guest Editor of Journal of Sensors, for the special issue Sensors and Systems for Environmental Monitoring and Control, https://www.hindawi.com/journals/js/si/308345/</p> <p>Review Editor for Bionics and Biomimetics; Frontiers in Bioengineering and Biotechnology, http://loop.frontiersin.org/people/334762/overview</p>

Comisii teze de doctorat

1. Monica Gay Martin, Nuevos avances en sensores voltamétricos nanoestructurados y miniaturizados. Aplicación en una lengua electrónica en el sector alimentario, Universidad de Valladolid, 2012. (secretar)
2. Cristina Medina Plaza, Sensor arrays for enology applications: using nanoscience for grape analysis, Universidad de Valladolid, 2016. (referent extern)

Informații suplimentare

Membru al asociațiilor profesionale

Membru al European Centre of Excellence for the Environment, ECEE, Laboratory of sensors and biosensors for the analysis of food products – BIOSENS (<http://erris.gov.ro/European-Centre-of-Excellenc-1>)

Membru al Gospel (General Olfaction and Sensing Projects on a European Level) (2004-2006)

Membru al "Centru de Nanostructuri și Materiale Funcționale" de la Universitatea din Galați (2006-2008)

Activitatea științifică

Numărul de publicații în reviste ISI: 49 (Lista lucrărilor), www.scopus.com, 21.03.2017

Capitole în cărți publicate în edituri internaționale: 9 (Lista lucrărilor)

Capitole în cărți publicate în edituri naționale: 1 (Lista lucrărilor)

Manager de proiecte de cercetare: 3

Membru în echipa în proiecte de cercetare: 17

Indicele Hirsch: 21, www.scopus.com, 21.03.2017

Numărul de citări: 790 (fără autocitări), www.scopus.com, 21.03.2017

<http://orcid.org/0000-0002-3823-4174>

Premii obținute

Premierea rezultatelor cercetării – articole - UEFISCDI

1. Rodríguez-Méndez, M.L., Apetrei, C., de Saja, J.A., 2008, Evaluation of the polyphenolic content of extra virgin olive oils using an array of voltammetric sensors, *Electrochimica Acta* 53 (20), 5867-5872.
2. Rodríguez-Méndez, M.L., Apetrei, C., Nieto, M., Hernandez, V., Navarrete, J.T.L., Effenberger, F., de Saja, J.A., 2009, Sensing properties of organised films based on a bithiophene derivative, *Sensors and Actuators, B: Chemical* 141 (2), pp. 625-633.
3. Rodríguez-Méndez, M.L., Gay, M., Apetrei, C., De Saja, J.A., 2009, Biogenic amines and fish freshness assessment using a multisensor system based on voltammetric electrodes. Comparison between CPE and screen-printed electrodes, *Electrochimica Acta* 54 (27), pp. 7033-7041.
4. Apetrei, C., Apetrei, I.M., Villanueva, S., de Saja, J.A., Gutierrez-Rosales, F., Rodriguez-Mendez, M.L., 2010, Combination of an e-nose, an e-tongue and an e-eye for the characterisation of olive oils with different degree of bitterness, *Analytica Chimica Acta* 663, pp. 91-97.
5. Gay, M., Apetrei, C., Nevares, I., del Alamo, M., Zurro, J., Prieto, N., De Saja, J. A., Rodríguez-Méndez, M.L., 2010, Application of an electronic tongue to study the effect of the use of pieces of wood and micro-oxygenation in the aging of red wine, *Electrochimica Acta* 55, pp. 6782-6788.
6. Apetrei, C., Alessio, P., Constantino, C.J.L., de Saja, J.A., Rodriguez-Mendez, M.L., Pavinatto, F.J., Fernandes, E.G., Zucolotto, V., Oliveira, O.N., 2011, Biomimetic biosensor based on lipidic layers containing tyrosinase and lutetium bisphthalocyanine for the detection of antioxidants, *Biosensors and Bioelectronics* 26, pp. 2513-2519.
7. Pavinatto, F.J., Fernandes E.G.R., Alessio P., Constantino C.J.L., de Saja J.A., Zucolotto V., Apetrei C., Oliveira O.N. Jr., M.L. Rodriguez-Mendez, 2011, Optimized architecture for Tyrosinase-containing Langmuir-Blodgett films to detect pyrogallol, *Journal of Materials Chemistry*, 21: 4995-5003.
8. Apetrei, C., Apetrei, I.M., De Saja, J.A., Rodriguez-Mendez M.L., 2011, Carbon paste electrodes made from different carbonaceous materials: application in the study of antioxidants, *Sensors*, 11, pp. 328-1344.
9. Apetrei, C., Rodríguez-Méndez, M.L., de Saja, J.A., 2011, Amperometric tyrosinase based biosensor using an electropolymerized phosphate-doped polypyrrole film as an immobilization support. Application for detection of phenolic compounds, *Electrochimica Acta*, 56, pp. 8919-8925.
10. Ghasemi-Varnamkhasti, M., Rodríguez-Méndez M.L., Mohtasebi, S.S., Apetrei, C., Lozano, J., Ahmadi, H., Razavi, S.H., de Saja, J.A., 2012, Monitoring the aging of beers using a bioelectronic tongue, *Food Control*, 25, pp. 216-224.
11. Ghasemi-Varnamkhasti, M., Mohtasebi, S.S., Rodriguez-Mendez, M.L., Lozano, J., Razavi, S.H., Ahmadi, H., Apetrei, C., 2012, Classification of non alcoholic beer based on aftertaste sensory evaluation by chemometric tools, *Expert Systems With Application*, 39, pp. 4315-4327.
12. Apetrei, I.M., Rodríguez-Méndez M.L., Apetrei, C., Nevares, I., del Alamo, M., de Saja, J.A., 2012, Monitoring of evolution during red wine aging in oak barrels and alternative method by means of an electronic panel test, *Food Research International*, 45 (1) , pp. 244-249.

13. F. Matemadombo, C. Apetrei, T. Nyokong, M.L. Rodríguez-Méndez, J.A. de Saja, 2012, Comparison of carbon screen printed and disk electrodes in the detection of antioxidants using CoPc derivatives, *Sensors and Actuators, B: Chemical*, 166-167, pp. 457-466.
14. Apetrei, C., 2012, Novel method based on polypyrrole-modified sensors and emulsions for the evaluation of bitterness in extra virgin olive oils, *Food Research International*, 48, pp. 673-680.
15. Apetrei, I.M., Rodríguez-Mendez, M.L., Apetrei, C., De Saja, J.A., 2013, Enzyme sensor based on carbon nanotubes/cobalt(II) phthalocyanine and tyrosinase used in pharmaceutical analysis, *Sensors and Actuators, B: Chemical*, 177, pp. 138-144
16. Apetrei, I.M., Apetrei, C., 2013, Amperometric biosensor based on polypyrrole and tyrosinase for the detection of tyramine in food samples, *Sensors and Actuators B: Chemical*, 178, pp. 40-46
17. N. Prieto, P. Oliveri, R. Leardi, M. Gay, C. Apetrei, M.L. Rodríguez-Méndez, J.A. de Saja, 2013, Application of a GA-PLS strategy for variable reduction of electronic tongue signals, *Sensors and Actuators B* 183, 52- 57
18. I. M. Apetrei, M. L. Rodríguez-Mendez, C. Apetrei, J. A. de Saja, Fish Freshness Monitoring Using an E-tongue Based on Polypyrrole Modified Screen-Printed Electrodes, *IEEE Sensors Journal* 13 (2013) 2548 - 2554
19. C. Apetrei, C. Medina, J.A. de Saja, M.L. Rodríguez-Mendez, Electrochemical characterization of dilithium phthalocyanine carbonaceous electrodes, *Journal of Porphyrins and Phthalocyanines* 17 (2013) 522-528; DOI: 10.1142/S1088424613500430
20. Irina Mirela Apetrei, Constantin Apetrei, Voltammetric e-tongue for the quantification of total polyphenol content in olive oils, *Food Research International* 54 (2013) 2075-2082; 21. I. M. Apetrei, C. Apetrei, Biosensor based on tyrosinase immobilized in single-walled carbon nanotubes modified glassy carbon electrode for epinephrine detection, *International Journal of Nanomedicine* 8 (2013) 4391-4398
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