



Curriculum vitae Europass	
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Nationality	romanian
Data of birth	03 Sept 1955
Gender	Female
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Employments	Senior researcher at National Institute of R&D for Isotopic and Molecular Technology,
Education	<ul style="list-style-type: none">• B.Sc. in Chemistry, Babes-Bolyai University, Cluj-Napoca, Romania (1974-1978)• Ph.D. in Analytical Chemistry at Babes-Bolyai University, Cluj-Napoca, Romania (1991-1998) Thesis Title “Study of potentiometric electrochemical sensors used in Flow Injection Analysis (FIA)” (supervisor- Dr. Elena Hopirtean)
Research activity	1982-2001 -Thin Layer Chromatography: new chemical bonded phases for HPLC - Potentiometric sensors (ion selective electrodes): research and production activity - FIA (Flow Injection Analysis) 2001-present—Nanomaterials and Biosensors <ul style="list-style-type: none">➤ Preparation of nanomaterials based on gold and silver nanoparticles (AuNPs and AgNPs)➤ Electrochemical and optical studies on nanomaterials:<ul style="list-style-type: none">➤ cyclic voltammetry;➤ UV-Vis absorption spectroscopy➤ Application of nanomaterials in medicine (cream for skin diseases)➤ Preparation of gold nanowires and platinum nanowires, using alumina membranes as template;➤ Preparation and characterization of glucose biosensors, using carbon nanofibres and MWCNT as support for enzyme immobilization;➤ Immobilization of amino acids, peptides, proteins, enzymes on self-assembled monolayers (AuNPs on ITO substrates) or carbon nanostructures;➤ Synthesis of metallic nanoparticles (silver and gold) and their application in medicine;➤ Sensors for photovoltaic cells based on dye-sensitization of TiO₂;
Research projects	- „Produse dermatologice pe baza de biomateriale hibride obtinute din antociani si nanoparticule metalice” - (NATNANOMED) Programului PN-II-PT-PCCA–Tip 1

<p>Computer skill and competences</p>	<p>(Director de proiect) 2012-2016, proiect Nr. 147/2.07.2012.</p> <p>-“Senzori si microsenzori bazati pe porfirine pentru analiza compusilor farmaceutici, a compusilor de importanta clinica si a alimentelor” Proiect Parteneriate (Responsabil de proiect 2007-2010),Coordonator Proiect: INCD pentru Electrochimie si Materie Condensata, Timisoara</p> <p>-“Multifunctional composites based on supramolecular architecture with optoelectronic, photochemical, electrochemical and biological properties-precursors for advanced materials” CEEX project, MEC, Romania, 2006-2008 (membru in echipa)</p> <p>-“Self-assembled supramolecular structures based on functionalized organic molecules” CEEX project, MEC, Romania, 2006-2008 (membru in echipa)</p> <p>-“New coronands and cryptands with supramolecular properties: design, synthesis, structural analysis and potential applications in molecular electronics” CEEX project, MEC Romania, 2006-2008 (membru in echipa)</p> <p>-“Laboratories network in nanotechnology” MATNANTECH project, MEC Romania 2001-2004 (membru in echipa)</p> <p>-“Supramolecular structures based on macrocycles compounds and “cage” molecules functionalized on colloidal gold” CERES project, MEC Romania 2004-2006 (Responsabil de proiect)</p> <p>-“Synthesis and structures of new macrocycles. Study on formation of „host-guest” systems and ion-selective sensors preparation” CERES project, MEC Romania 2003-2005 (Responsabil de proiect)</p> <p>-“Multifunctional nanostructured molecular systems”, Cercetare nucleu contract nr. PN03-29.02.02 MEC, Romania 2006-2008 (membru in echipa)</p> <p>-“Preparation and characterization of membranes based on calcogenide for copper and cyanide selective membrane electrodes (EMIS-Cu, EMIS-CN)” CNCSIS, Romania 2001 (membru in echipa)</p> <p>Competent with Microsoft Office (Word, Excel, Power Point, Table Curve, Origin, Chem Windows, ChemDraw), Internet, realization WEB pages</p>
<p>Publications in journals</p>	<ol style="list-style-type: none"> 1. M. Perde-Schrepler, L. David, L. Olenic, M. Potara, E. Fischer-Fodor, P. Virag, F. Imre-Lucaci, I. Brie and A. Florea, Gold Nanoparticles Synthesized with a Polyphenols-Rich Extract from Cornelian Cherry (<i>Cornus mas</i>) Fruits: Effects on Human Skin Cells Hindawi Publishing Corporation, Journal of Nanomaterials, 2016, Volume 2016, Article ID 6986370, 13 pages, http://dx.doi.org/10.1155/2016/6986370. 2. Crisan, D; Roman, I; Olenic, L; Crisan, M; Scharffetter-Kochanek, K; <i>Sindrilaru, A Silver-nanoparticles complexed with natural extract of cornus mass significantly inhibit inflammation in vitro and in human psoriasis plaques</i>, EXPERIMENTAL DERMATOLOGY, 2015, vol. 24, issue 3, Pages: E10-E10, Meeting Abstract: P058; 3. Filip, A; Potara, M; Florea, A; Baldea, I; Olteanu, D; Bolfa, P ; Clichici, S; David, L; Moldovan, B; Olenic, L, <i>Comparative evaluation by scanning confocal Raman spectroscopy and transmission electron microscopy of therapeutic effects of noble metal nanoparticles in experimental acute inflammation</i>, RSC ADVANCES, 2015, Vol. 5, Issue 83, Pages: 67435-67448; 4 Camelia Berghian-Grosan, Liliana Olenic, Gabriel Katona, Maria Perde-

- Schrepler si Adriana Vulcu, *l-Leucine for gold nanoparticles synthesis and their cytotoxic effects evaluation*, *Amino Acids* (2014) 46:2545–2552;
- 5 L. David, B.Moldovan, A. Vulcu, **L. Olenic**, M.Perde-Schrepler, E. Fischer-Fodor, Adrian Florea, M. Crisan, I. Chiorean, S. Clichici G. A. Filip, *Green synthesis, characterization and anti-inflammatory activity of silver nanoparticles using European black elderberry fruits extract*, ***Colloids and Surfaces B: Biointerfaces*** 2014, 122, 767–777.
 - 6 Orza, A.; Pruneanu, S.; Soritau, O.; Borodi,G, Florea A.,Balici S., Matei H., **Olenic L.**, *Single-Step Synthesis of Gold Nanowires Using Biomolecules as Capping Agent/Template: Applications for Tissue Engineering*, *Particulate Science and Technology*, Volume: 31 Issue: 6 Pages: 658-662 Published: NOV 2 2013.
 - 7 **L.Olenic**, A. Vulcu, I. Chiorean, M. Crisan, C. Berghian-Grosan, S. Dreve, L. David, L. B. Tudoran, I. Kacso, I. Bratu, C. Neamtu and C. Voica, ‘*Effect of Natural Extracts pH on Morphological Characteristics of Hybrid Materials Based on Gold Nanoparticles*’, *AIP Conference Proceedings*, 2013,volume 1565, pages 238-242.
 - 8 A. Vulcu, S. Pruneanu, C. Berghian-Grosan, **L. Olenic**, L.M. Muresan, L. Barbu-Tudoran, *Impedimetric Investigation of Gold Nanoparticles – Guanine Modified Electrode*, ***AIP Conference Proceedings***, 2013,volume 1565, pages 273-277.
 - 9 M. Crisan, L. David, B. Moldovan, A. Vulcu, S. Dreve, M. Perde-Schrepler, C. Tatimir, A. G. Filip, P. Bolfa, M. Achim, I. Chiorean, I. Kacso, C. Berghian Grosan and **L. Olenic**, *New Nnanomaterials for the Improvement of Psoriatic Lesions*, *J. Mater. Chem. B* 2013, 1, 3152-3158.
 - 10 A Orza, O Soritau, C Tomuleasa, **L Olenic**, A Florea, O Pana, I Bratu, E Pal, S Florian, D Casciano, AS Biris, *Reversing the Chemoresistence of Malignant Gliomas Stem Cells using Gold Nanostructures*, *International Journal of Nanomedicine* 2013; 8:689-702. doi: 10.2147/IJN.S37481. Epub 2013 Mar 1.
 - 11 A. Vulcu, C. Grosan, L.M. Muresan, S. Pruneanu and **L. Olenic**, *Modified gold electrodes based on thiocytosine/guaninegold nanoparticles for uric and ascorbic acid determination*, *Electrochim. Acta* 2013, 88, 839-846.
 - 12 C. Grosan Berghian, C. Varodi, A. Vulcu, **L. Olenic**, S. Pruneanu, V. Almasan, *Structural and electrochemical characterization of novel leucine-gold nanoparticles modified electrode*, *Electrochim. Acta* 2012, 63, 146-152.
 - 13 F. Pogacean, I.Baldea, **L.Olenic**, S. Pruneanu, *Kinetic determination of drug concentration via enzyme-catalyzed decomposition of hydrogen peroxide*, *Particulates science and technology* 2011, 29, 493-502, Doi 10.1080/02726351.2010.521234.
 - 14 A.Orza, O. Soritau, **L. Olenic**, M.Diudea, A.Florea, D.R.Ciuca, C.Mihu, D Casciano, AS Biris, *Electrically Conductive Gold-Coated Collagen Nanofibers for Placental-Derived Mesenchymal Stem Cells Enhanced Differentiation and Proliferation*, *ACS NANO* 2011, 5, 6, 4490-4503.
 - 15 D.Vlascici, S.Pruneanu, **L. Olenic**, et al. “*Manganese(III) Porphyrin-based Potentiometric Sensors for Diclofenac Assay in Pharmaceutical Preparations*”, *Sensors* 2010, 10, 10, 8850-8864.
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- 17 S.Pruneanu, L. **Olenic**, SAF Al-Said, et al. "Template and template-free preparation of one-dimensional metallic nanostructures", *Journal of Materials Science*, 2010, 45, 12, 3151-3159.
 - 18 Gh. Mihailescu, L.**Olenic**, S. Garabagiu, G. Blanita, E. Fagadar-Cosma, A.S. Biris, "Coupling Between Plasmonic Resonances in Nanoparticles and Porphyrins Molecules", *Journal of Nanosci. Nanotech.* 2010, 10, 4, 2527.
 - 19 L. **Olenic**, Gh. Mihailescu, S. Pruneanu, D. Lupu, A. R. Biris, P.Margineanu, S. Garabagiu, A. S. Biris, "Investigation of Carbon Nanofibres as Support for Bioactive Substances (Carbon Nanofibres as Support for Bioactive Substances)", *J. Mater.Sci.: Mater.Med.*, 2009, 20, 177-183.
 - 20 D. Vlascici, E. Fagadar Cosma, E. M. Pica, V. Cosma, O. Bizerea, Gh. Mihailescu, L. **Olenic**, "Free Base Porphyrins as Ionophores for Heavy Metal Sensors", *Sensors* 2008, 8, 4995-5004.
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 - 31 Irina Tarsiche, Decebal Ciurchea, Patrizio Madau, L. **Olenic**, "On-line Analysis of NH₃, CO₂, and SO₂ Diffusion Through Microporous Teflon", *Laboratory Robotics and Automation*, 1999, 11, 224-228.

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- 33 **L.Olenic**, Elena Hopârtean, Liviu Olenic, D.Crișan, “*Flow Injection Determination of Copper (II) in Chemical and Electrochemical baths with a Potentiometric Differential Microdetector*”, *Laboratory Robotics and Automation* 1997, 9, 305-308.
- 34 **L. Olenic**, Elena Hopârtean, Liviu Olenic, “*Potentiometric Differential Microdetector with Interchange Solid Membranes Used in Flow Injection Analysis*”, *Analyst* 1997, 122, 107-109.
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Chapter in Books

1. **Liliana Olenic**, Maria Crisan, Adriana Vulcu, Camelia Berghian-Grosan, Diana Crisan, and Ioana Chiorean, *Green Nanomaterials for Psoriatic Lesions*, chapter 18, 479-505, “*Nanomaterials and Regenerative Medicine*”, Edited by Yunfeng Lin, Tao Gong, ISBN: 978-953-56942-3-6, Published online: 01 Feb, 2016;
2. Florina Pogacean, Stela Pruneanu and **Liliana Olenic**, “*New hybrid materials with applications in microelectronics*”, *Recent Res. Devel. Mat. Sci.*, 9 (2012): 00-00 ISBN: 978-81-308-0466-8.
3. **Liliana Olenic**, Stela Pruneanu, Valer Almasan, Alexandru R. Biris, Titlul cartii: “*Nanofibers*”, 2010, ISBN 978-953-7619-86-2, 26 pagini Editor IN-TECH, Kirchengasse 43/3, A-1070 Vienna, Austria
4. Eugenia Fagadar-Cosma, Dana Vlascici, Gheorghe Fagadar-Cosma, Gheorghe Mihailescu, **Liliana Olenic** “*Porfirinele de la Sinteza la Aplicatii*”, ISBN 978-973-687-680-6, Editura Eurostampa, Timisoara, **2008**, pg 192-230.
5. E. Indrea, I. Bratu, G. Mihailescu, **L. Olenic**, S. Dreve, *NSTI Nanotech Meeting series- NANOTECH*, capitolul Multifunctional Materials based on Chitosan, Globular Protein and Gold Nanoparticles, ISBN 1420063766, **2007**.
6. O. Horovitz, A. Mocanu, Gh. Tomoaia, **L. Olenic**, Gh. Mihailescu, O.Boroștean, A. Popoviciu, C. Crăciun, T. Yupsanis and M. Tomoaia-Cotisel,

“Synthesis, characterization and properties of gold nanoparticles in colloidal aqueous solutions in the absence and in the presence of globular proteins. Auto-assembled gold nanostructures in thin films”, in *Convergence of Micro-Nano-Biotechnologies, Series in Micro and Nanoengineering*, Volume 9, Editors: M. Zaharescu, E. Burzo, L. Dumitru, I. Kleps and D. Dascalu, Romanian Academy Press, Bucharest, 2006, pp. 132-146. ISBN: (10) 973-27-1422-0; ISBN: (13) 978-973-27-1422-5.

Books

1. Liviu Olenic, **Liliana Olenic** “Organic Chemistry Solved Problems”, Ed. Dacia, 2000.

PAPERS presented at conferences (selection)

1. D. Crisan, I. Roman, **L. Olenic**, M. Crisan, K. Scharffetter-Kochanek, A. Sindrilaru, "Silver- nanoparticles complexed with natural extract of Cornus Mass significantly inhibit inflammation in vitro and in human psoriasis plaques", 42 Arbeitsgemeinschaft Dermatologische Forschung (ADF) am 6. März 2015, Universität Ulm, Uni-Ost.- comunicare orală;
2. A. Filip, M. Potara, A. Florea, I. Baldea, D. Olteanu, P. Bolfa, S. Clichici, L. David, **L. Olenic**, S. Astilean - Comparative evaluation by confocal Raman spectroscopy and transmission electron microscopy of gold and silver nanoparticles effects in experimental inflammation, The XXVIIIth National Conference of the Romanian Society of Physiological Sciences, Constanta, 28-30 May, 2015-comunicare orală.
3. L. David, B. Moldovan, **L. Olenic**, A. Vulcu, A. G. Filip, New biomaterials based on gold nanoparticles and evaluation of their anti-inflammatory properties, International Conference Sustainable Materials Science and Technology, Paris, France, 15th-17th July, 2015.
4. B. Moldovan, L. David, **L. Olenic**, A. Vulcu, A. G. Filip, Antioxidant effect of new green synthesized gold nanoparticles using polyphenols from European black elderberry, International Conference Sustainable Materials Science and Technology, Paris, France, 15th-17th July, 2015.
5. A. Filip, S. Clichici, P. Bolfa, G. Borza, N. Decea, I. Baldea, D. Olteanu, L. David, **L. Olenic** New biomaterials based on gold nanoparticles and polyphenols from *Cornus Sanguinea* L. fruits in experimental inflammation, Summer Academy Meeting, American Academy of Dermatology, 19-23 August, 2015, New York.
6. **L. Olenic**, A. Vulcu, C. Berghian Grosan, M. Filip, L. Magerusan, L. David, L. Barbu-Tudoran, Gold nanoparticles based on semisynthesis compounds with pure anthocyanin (K) and tryptophan, PIM 23-25 Sept 2015 Cluj-Napoca, Romania.
7. D. Crisan, I. Roman, I., **Olenic L.**, M. Crisan, K. Scharffetter-Kochanek, A. Sindrilaru, The anti-inflammatory effect of silver and gold nanoparticles complexed with polyphenolic compound of cornus mass in plaque psoriasis: in vitro and in vivo studies on human psoriasis plaques, 24th EADV Congress, Copenhagen, Denmark, 7-11.10.2015 (e-poster)
8. M. Perde-Schrepler, L. David, **L. Olenic**, A. Florea, M. Potara, E. Fischer-Fodor, P. Virag, I. Brie, In vitro effects of gold nanoparticles synthesized with Cornus mas extract, prezentat la Applied Nanotechnology and Nanoscience International Conference, Paris, 5-7.11.2015.

9. A. Filip, S. Clichici, P. Bolfa, N. Decea, I. Baldea, D. Olteanu, R. Suharovschi, L. David, **L. Olenic**, Effects of gold-based nanoparticles on experimental inflammation in Wistar rats prezentat la Applied Nanotechnology and Nanoscience International Conference, Paris, 5-7.11.2015.
10. Adriana Filip, S. Clichici, L. David, **L. Olenic**, P. Bolfa, G. Borza, D. Olteanu, I Baldea, M. Achim, Muresan A , “*In vivo* studies on the anti-inflammatory effect of gold nanoparticles functionalized with natural extracts” – **A XXVII - a Conferinta Nationala de Fiziologie a Societatii Romane de Fiziologie** 5-7 iunie 2014.
11. Maria Perde-Schrepler, Eva Fischer-Fodor, Piroska Virag, Olga Soritau, Ioana Brie, Luminita David, **Liliana Olenic**–“*In vitro* effects of noble metal nanoparticles synthesized with natural extracts”, poster, **Zilele Institutului Oncologic “Prof.Dr.Ion Chiricuta”, 13-14.06.2014, Cluj-Napoca, Romania.**
12. Adriana G. Filip, Simona Clichici, Pompei Bolfa, Adriana Muresan, Ioana Baldea, Diana Olteanu, Luminita David, **Liliana Olenic** “Modulatory Effects of Nanostructures Based on Gold Nanoparticles and Natural Extracts in Experimental Inflammation in Rats”, **XII International Conference on Nanostructured Materials (NANO 2014) July 13-18, 2014 Moscow, Russia.**
13. Maria Perde-Schrepler, Eva Fischer-Fodor, Piroska Virag, Olga Soritau, Ioana Brie, Luminita David, **Liliana Olenic**–“*In vitro* effects of silver nanoparticles synthesized with a polyphenols rich extract from Cornelian cherry (*Cornus mas*) fruits”, poster **XII International Conference on Nanostructured Materials (NANO 2014) July 13-18, 2014, Lomonosov Moscow State University, Moscow, Russia.**
14. Luminita C. David, Bianca E. Moldovan, **Liliana Olenic**, Adriana Vulcu, Maria Perde-Schrepler, „Common Dogwood Berries Extract Mediated Green Synthesis of Silver nanoparticles and Evaluation of Their Anticancer activity”, **XII International Conference on Nanostructured Materials (NANO 2014) July 13-18, 2014 Moscow, Russia.**
15. Bianca E. Moldovan, Luminita C. David, **Liliana Olenic**, Adriana Vulcu, Gabriela-Adriana Filip, „Anti-Inflammatory Effect of Some new Biomaterials based on Gold Nanoparticles and Polyphenols from *Cornus Sanguinea L.* fruits”, **XII International Conference on Nanostructured Materials (NANO 2014) July 13-18, 2014 Moscow, Russia.**
16. **Liliana Olenic**, Ioana Chiorean , Maria Crisan, Adriana Vulcu, Camelia Grosan, Lucian-Barbu Tudoran, Irina Kacso, Lidia Magerusan, Ioan Bratu, “Nanomaterials based on Gold/Silver Nanoparticles-Kuromarin Chloride and their Applications in Medicine”, **ATOM N-Constanta, 21-24 August 2014.**
17. Maria Perde-Schrepler, Eva Fischer-Fodor, Piroska Virag, Olga Soritau, Ioana Brie, Corina Tatomir, Florica Imre-Lucaci, Adrian Florea, Luminita David, **Liliana Olenic**- „Nobel metal nanoparticles synthesized with natural extracts- effects on human skin cells”, prezentare orala **The VI th International Conference on oxidativ stress in Dermatology and Biology, 28-31.08.2014, Andros, Greece**
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19. B.Moldovan, L.David, **L.Olenic**, A.Vulcu, M.Perde-Schepler, New Biomaterials Based on Silver Nanoparticles and Polyphenols from *VIBURNUM OPULUS* Fruits with Potential Anticancer Activity, **IUPAC 9th International Conference on Novel Materials and Synthesis (NMS-IX) & 23rd International Symposium on Fine Chemistry and Functional Polymers (FCFP-XXIII), Shanghai, 17-22 October, 2013**
20. B. Moldovan, L. David, **L. Olenic**, A. Vulcu, G-A. Filip, Polyphenols from *SAMBUCUS NIGRA* Berries as Raw Material for the Synthesis of NEW Fynctionalised Silver Nanoparticles with Anti-Inflammatory Effect, **IUPAC 9th International Conference on Novel Materials and Synthesis (NMS-IX) & 23rd International Symposium on Fine Chemistry and Functional Polymers (FCFP-XXIII), Shanghai, 17-22 October, 2013**
21. A Filip, D. Daicoviciu, P. Bolfa, S. Clichici, A. Muresan, L. David, **L. Olenic** Effect of materials based on gold and silver nanoparticles and natural compounds on carrageenan-induced rat paw edema, **IUPS, 21-26 July 2013 Birmingham, UK**
22. A. Filip, D. Daicoviciu, N. Decea, P. Bolfa, S. Clichici, A. Muresan, L. David, **L. Olenic**, Antiinflammatory effect of materials based on gold and silver nanoparticles and *Sambucus Nigra L.* on carrageenan-induced rat paw edema **22nd EADV, October 2-6, 2013 Istanbul, Turkey**
23. **Liliana Olenic**, A. Vulcu, I. Chiorean, M. Crisan, C. Berghian-Grosan, S. Dreve, L. David, L. B. Tudoran, I. Kacso, I. Bratu, C. Neamtu and C. Voica, "Effect of Natural Extracts pH on Morphological Characteristics of Hybrid Materials Based on Gold Nanoparticles" PIM 2013 International Conference Processes in Isotopes and Molecules, 25 - 27 Septembrie 2013 Cluj-Napoca
24. **Liliana Olenic**, Adriana Vulcu, Camelia Berghian Grosan, Simina Dreve, Ioana Chiorean, Lucian Barbu-Tudoran, Maria Crisan, Luminita David, Maria Perde-Schrepler, Adriana Gabriela Filip, Nanomateriale pe baza de nanoparticule metalice (Au, Ag) si extracte naturale aplicate in medicina, A 12-a editie a Seminarului National de Nanostiinta si Nanotehnologie, Biblioteca Academiei Romane, Bucuresti, 16 mai 2013 (poster)
25. **Liliana Olenic**, Adriana Vulcu, Camelia Grosan, Luminita David, Bianca Moldovan, Maria Perde-Schrepler, Adriana Gabriela Filip, Maria Crisan, Ioana Chiorean, "The Non-invasive Assessment of the Efficacy of Gold Nanoparticles-Anthocyanins Nanomaterials on Cutaneous Pathology" Nanotech Italy, 21-23 Nov. 2012 (poster).
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