

<b>Program</b>	<b>Program Nucleu PN 09 13 01 10</b>
<b>Project title (ENG):</b>	<b>Research regarding the development of methods for determining in water of some nitro-aromatic compounds and some pesticides with sulfur and phosphorus, included in the list of priority substances</b>
<b>Project title (RO):</b>	<b>Cercetari privind dezvoltarea unor metode de determinare in apa a unor nitroderivati aromatici si pesticide cu sulf si fosfor, incluse in lista substantelor prioritare.</b>
<b>Duration</b>	2012-2014
<b>Team Leader</b>	Senior Researcher Iancu Vasile
<b>Summary ENG</b> (short description)	In these project we developed four testing methods sensitive, selective and precise for determining the concentrations of organophosphorus pesticides (dimethoate, disulfoton, fenthion, azinphos-ethyl, Omethoate, demeton-s-methyl, bentazone and azinphos-methyl) and certain nitro- aromatic compounds chlorinated (4-chloro-2-nitrobenzene and 4-chloro-2-nitrotoluene) in drinking water samples, groundwater, surface water and wastewater. The performance parameters of developed methods were estimated based on the methodology validation in house.
<b>Summary RO</b> (short description)	Au fost dezvoltate 4 metode de incercare sensibile, selective si precise pentru determinarea concentratiilor unor pesticide organofosforice (dimetoat, disulfoton, fention, azinfos-etil, ometoat, demeton-s-metil, bentazon si azinfos-metil) si a unor nitroderivati aromatici clorurati (4-clor-2-nitrobenzen si 4-clor-2-nitrotoluen) in probe de ape potabila, apa subterana, apa de suprafata si apa uzata. Parametrii de performanta ai metodelor dezvoltate in laborator au fost estimati pe baza metodologiei de validare <i>in house</i>
<b>Dissemination of results</b>	
Full-paper ISI	Jana Petre <u>Vasile Iancu</u> , Victor David, Thermodynamic study of the liquid chromatography retention process for some pesticides on C8 and C18 silica-based stationary phases, Rev. Roum. Chim 58(4-5), 425-432; 2013
Conferences (platform, poster, abstract / full-paper)	Iancu Vasile Ion, Jana Petre, Cuantificarea analitică a unor nitroderivați aromatici clorurați incluși în lista substanțelor prioritare, din probe de apă uzată și apă de suprafață, Conferința Internațională „TOTUL PENTRU O APĂ CURATĂ“ ediția a III-a, 17 – 18 mai 2012 ;Pitești , pg 147
	V.I. Iancu, J. Petre, SPE-HPLC/DAD analysis of bentazone and azinphos-methyl in water sample, International Symposium “The Environment And The Industry”, 2013, 29-30 October, Bucharest
	Iancu Vasile Ion., Toma Galaon, Jana Petre, Liliana Cruceru, Luoana Florentina Pascu , Occurrence of some pesticides in the dissolved water phase of the Danube river and its three major tributaries; <i>International Symposium “The Environment And The Industry”</i> , Bucharest 2015
	V.I.Iancu, T. Galaon, J Petre, L Cruceru, L F Pascu., Determination of some orgaphopshate insecticides and herbicides in RouManian surface water samples by LC-MS/MS; 15 <sup>th</sup> International Multidisciplinary Scientific GeoConferences SGEM Albena, Bulgaria pg131-139 , 2015