

Program	Program NUCLEU PN 09-13 02 23
Project title (ENG):	Researches on the influence of organochlorine substances on the environment (water, sediment, biota)
Project title (RO):	Cercetari privind influenta substantelor organoclorurate asupra mediului (apa, sediment, biota)
Duration	2015
Team Leader	Senior Researcher Chem. Mihaela Iordache
Summary (RO) (short description)	<p>Proiectul are ca obiectiv studierea transferului unor substante organoclorurate in componentele de mediu apa, sediment si biota utilizand modelul de calcul MacKay. Cercetările au fost finalizate prin realizarea unui model experimental pentru estimarea transferului compusilor organici volatili (COV), compusilor organoclorurati si hidrocarburilor aromatice volatile (BTEX) in componentele de mediu apa, sediment, biota din zona lacurilor de acumulare Babeni-Marcea, Zavideni, Dragasani si Strejesti in vederea diminuării riscului asupra mediului. In urma modelarii s-au obtinut valori indicative realiste pentru compartimentele de mediu de interes, respectiv, aer, sediment, biota.</p> <p>The project aims to study the transfer of organochlorine substances in the environmental water, sediment and biota using the calculation model MacKay. The research was completed by performing an experimental model for estimating the transfer of volatile organic compounds (VOCs), organochlorine compounds and aromatic hydrocarbons volatile (BTEX) in the environmental water, sediment, biota of the reservoirs Babeni-Marcea, Zavideni, Dragasani and Strejesti in order to reduce environmental risk. After modeling indicative values were obtained for realistic environmental compartments of interest, respectively, air, sediment, biota.</p>
Dissemination of results	
Full-paper ISI	M. Iordache , L. R. Popescu, S. Neamtu. L. F. Pascu, I. Iordache, Assessment of pollution with organochlorine substances in the accumulation lakes on the Olt River, using the Fugacity Model, <i>Revista de Chimie</i> (Rev. Chim. Bucharest), 67, 6, (2016)
Full-paper BDI	M. Iordache , L.- R. Popescu, L. F. Pascu, I. Iordache, Estimated transfer of volatile organochlorine substances in the ecosystems water, sediment, biota using the concept of fugacity, <i>Progress of Cryogenics and Isotopes Separation</i> , ISSN 1582-2575, 18, 1, (2015) 99-114
	M. Iordache , L.- R. Popescu, L. F. Pascu, I. Iordache, The impact of pollution with (VOCs) and (BTEX) on the environment (water, sediment, biota) of the Olt River, <i>SIMI 2016, The International Symposium Environment and Industry, Bucuresti</i>
Conferences (platform, poster, abstract / full-paper	M. Iordache , L.- R. Popescu, L. F. Pascu, I. Iordache, The impact of pollution with (VOCs) and (BTEX) on the environment (water, sediment, biota) of the Olt River, <i>SIMI 2016, The International Symposium Environment and Industry, Bucuresti</i>