

Program	Program NUCLEU PN 09-13 02 17
Project title (ENG):	The environmental risk assessment using pollution indices
Project title (RO):	Evaluarea riscului de mediu cu ajutorul indicilor de poluare
Duration	2014-2015
Team Leader	Senior Researcher Chem. Mihaela Iordache
Summary (ENG) (short description)	The project aims to evaluate the extent of contamination by heavy metals in sediments and environmental risk using indices of pollution. We established criteria and indices for evaluating the significant pollution metal contamination. Also, it has developed a methodology for risk assessment. The methodology was verified on real situations studies.
Summary (RO) (short description)	Proiectul are ca obiectiv evaluarea gradului de contaminare cu metale grele in sedimente si a riscului ecologic utilizand indicii de poluare. S-au stabilit criteriile si indicii de poluare semnificativi pentru evaluarea gradului de contaminare cu metale, s-a elaborat o metodologie de evaluare a riscului si s-a verificat aceasta metodologie prin studii pe situatii reale.
Dissemination of results	
Full-paper ISI	M. Iordache , L.-R. Popescu, L.-F. Pascu, I. Iordache, The environmental risk assessment in sediments from Jiu River, Romania, <i>Revista de chimie</i> , 66, 8, (2015) 1247-1252
	M. Iordache , I. V. Branzoi, L. R. Popescu, I. Iordache, Evaluation of heavy metal pollution into a complex industrial area from Romania, <i>Environmental Engineering and Management Journal</i> , 15 No. 2, (2016) 389 – 394
Full-paper BDI	M. Iordache , L.-R. Popescu, I. Iordache, The application of pollution indexes in the assessment of heavy metal pollution in sediments, <i>Progress of Cryogenics and Isotopes Separation</i> , 17, 2, (2014), 129-140
	M. Iordache , L. R. Popescu, L. F. Pascu, I. Iordache, Assessment of the potential ecological risk with heavy metals in surface sediments from accumulation lakes on the sector inferior of the Olt River, <i>International Symposium – SIMI 2015</i> , Bucuresti, ISBN 978-973-7681-65-2
Conferences (platform, poster, abstract / full-paper)	L.R. Popescu, M. Iordache , L. F. Pascu, E.-M. Ungureanu, G.-O. Buica, The assess of heavy metal pollution in sediment from the Olt River Basin using multivariate statistical techniques, <i>5th BENA International Conference on “Environmental Engineering and Sustainable Development”</i> , “1 December 1918” University of Alba Iulia