

Fișa de verificare a îndeplinirii standardelor specifice  
 Profesor/CSI  
 DOMENIUL INGINERIA MEDIULUI  
 IN CONFORMITATE CU Ordin nr. 4204/2 din 15/07/2013

**1. Activitatea didactica si profesionala (A1)**

Carti/Capitole în carti de specialitate/Monografii/Suporturi de curs disponibile on-line

Carte	punctaj
C. Cosma, A. Dinu, T. Dicu, <b>R. Begy Radonul si cancerul pulmonar, Radioactivitatea mediului II</b> , Editura Quantum 2009, ISBN 978-973-88835-2-9	<b>33.4</b>
<b>TOTAL =</b>	<b>33p</b>

**2. Activitatea de cercetare (A2)**

Articole in extenso în reviste cotate ISI Thomson Reuters

	Articol	FI
1.	<b>Begy, R.C.</b> , Kovacs, T., Veres, D., Simon, H., <b>2016. Atmospheric flux, transport and mass balance of <math>^{210}\text{Pb}</math> and <math>^{137}\text{Cs}</math> radiotracers in different regions of Romania. <i>Appl. Radiat. Isot.</i> 111, 31-39.</b>	<b>1.136</b>
2.	<b>Begy, R.-C.</b> , Preoteasa, L., Timar-Gabor, A., Mihaiescu, R., Tanaselia, C., Kelemen, S., Simon, H., <b>2016. Sediment dynamics and heavy metal pollution history of the Cruhlig Lake (Danube Delta, Romania). <i>J. Environ. Radioact</i> 153, 167-175.</b>	<b>2.047</b>
3.	<b>Begy, R.C.</b> , Dumitru, O.A., Simon, H., Stepoaie, I., <b>2015. An improved procedure for the determination of <math>^{210}\text{Po}</math> by alpha spectrometry in sediments samples from Danube Delta. <i>J. Radioanal. Nucl. Chem.</i> 303 (3), 2553-2557.</b>	<b>1.419</b>
4.	<b>Begy, R.-C.</b> , Simon, H., Kelemen, S., Reizer, E., Preoteasa, L., <b>2015. Determination of sedimentation rates of a northern Danube Delta lake by <math>^{210}\text{Pb}</math> method. <i>Carpath. J. Earth Environ. Sci.</i> 10 (4), 191-194</b>	<b>0.730</b>
5.	<b>Begy, R.-C.</b> , Simon, H., Reizer, E., <b>2015. Efficiency testing of Red Lake protection dam on Rosu stream by <math>^{210}\text{Pb}</math> method. <i>J. Radioanal. Nucl. Chem.</i> 303 (3), 2539-2545.</b>	<b>1.419</b>
6.	<b>Begy, R.C.</b> , Timar-Gabor, A., Somlai, J., Cosma, C., <b>2011. A sedimentation study of St. Ana Lake (Romania) applying the <math>^{210}\text{Pb}</math> and <math>^{137}\text{Cs}</math> dating methods. <i>Geochronometria</i> 38 (2), 93-100.</b>	<b>1.243</b>
7.	<b>R. Begy, C. Cosma, Z. Horvath, 2009. Sediment accumulation rate in the "Red Lake" (ROMANIA) determined by Pb-210 and Cs-137 radioisotopes <i>Rom. J. Phys.</i> 54, 9-10</b>	<b>0.745</b>
8.	<b>Begy R., Cosma C., Timar A., 2009. Recent changes in Red Lake (Romania) sedimentation rate determined from depth profiles of <math>^{210}\text{Pb}</math> and <math>^{137}\text{Cs}</math> radioisotopes. <i>Journal of Environmental Radioactivity</i>, nr. 100, 644-648. <a href="http://www.sciencedirect.com/science/article/pii/S0265931X09001131">http://www.sciencedirect.com/science/article/pii/S0265931X09001131</a></b>	<b>3.571</b>
9.	<b>Begy R. CS., Dreve S., Timar-Gabor A. , Rusu O.A., Cosma C., 2012. Measurement of radium content in some spring waters from Romania. <i>Environmetal Engineering and Management Journal</i>, vol 11, nr 2, 1005-1009.</b>	<b>1.117</b>
10.	<b>R. Cs. Begy, J. Somlai, T. Kovacs, O. A. Dumitru (Rusu) and C. Cosma The activity concentration of <math>^{210}\text{Po}</math> in romanian commercial cigarettes and the radiation exposure estimation derived from their regular consumption. <i>Radiation Protection Dosimetry</i> 2013. , pp. 1-5. doi:10.1093/rpd/nct121</b>	<b>0.861</b>
11.	<b>Begy R.-C., Simon H., Kelemen S. <math>^{210}\text{Po}</math> inhalation due to smoking: a dose estimation.</b>	<b>1.419</b>

	<b>Journal of Radioanalytical and Nuclear Chemistry 2015. Vol 306/1.1 257-261p</b>	
12.	<b>Begy R.C., Cosma C., Timar A., Fulea D., 2009. The Determination of Absolute Intensity of <sup>234m</sup>Pa's 1001 keV Gamma Emission Using Monte Carlo Simulation. Journal of Radiation Research, nr. 50, 277-279. <a href="http://jrr.oxfordjournals.org/content/50/3/277.short">http://jrr.oxfordjournals.org/content/50/3/277.short</a></b>	<b>2.030</b>
13.	<b>R.Cs. Begy, H. Simon, C. Cosma Radiological Assessment of Stream Sediments between Băița-Plai and Beiuș, Romanian Journal of Physics 2013, Vol. 58, Supplement, P. S22–S28, Bucharest.</b>	<b>0.745</b>
14.	Simon, H., Kelemen, S., <u>Begy, R.-C.</u> <i>Anthropic influences on the sedimentation rates of lakes situated in different geographic areas. J. Environ. Radioact., DOI: 10.1016/j.jenvrad.2016.09.001</i>	<b>2.047</b>
15.	Hutchinson, S.M. , Akinyemi, F.O. , Mîndrescu, M. , <b>Begy, R.</b> , Feurdean, A. <i>Recent sediment accumulation rates in contrasting lakes in the Carpathians (Romania): impacts of shifts in socio-economic regime</i> (Article in press) <b>Regional Environmental Change</b> 17 February 2015, 13p	<b>2.664</b>
16.	Timar-Gabor, A., Vasiliuic, Ș., Bădărau, A.S., <b>Begy, R.</b> , Cosma C., <b>2010. Testing the potential of optically stimulated luminescence dating methods for dating soil covers from the forest steppe zone in Transylvanian basin. Carpathian Journal of Earth and Environmental Sciences- 5(2), 137-144.</b>	<b>1.579</b>
17.	Dumitru, O.A. , <b>Begy, R.C.</b> , Nita, D.C., Bobos, L.D., Cosma, C. <i>Uranium electrodeposition for alpha spectrometric source preparation Journal of Radioanalytical and Nuclear Chemistry</i> Volume 298, Issue 2, November 2013, Pages 1335-1339	<b>1.419</b>
18.	Iurian AR, Mabit L, <b>Begy R</b> , Cosma C, <i>Comparative assessment of erosion and deposition rates on cultivated land in the Transylvanian Plain of Romania using <sup>137</sup>Cs and <sup>210</sup>Pbex, J Environ Radioactiv, 10.1016/j.jenvrad.2013.02.009.</i>	<b>3.571</b>
19.	Constantin D., <b>Timar-Gabor A.</b> , Veres D., Begy R., Cosma C., <b>2012. SAR-OSL dating of quartz of different grain sizes extracted from a loess section in southern Romania embedding the Campanian Ignimbrite/Y5 tephra layer, Quaternary Geochronology, 10, 81-86. <a href="http://www.sciencedirect.com/science/article/pii/S1871101412000143">http://www.sciencedirect.com/science/article/pii/S1871101412000143</a></b>	<b>3.238</b>
20.	Cosma, C., Rusu O.A., Cosma, V., Nita, D., Begy, R. Cs., Timar-Gabor, A., Astilean, A., <b>2012. Protection of Alpha Spectrometry Detectors Using Thin Formvar Films and Influence on Detection Characteristics, IEEE Transactions on Nuclear Science 59 (4 PART 1), art. No. 6153411, pp. 1175-1179 DOI:10.1109/TNS.2012.2184802. <a href="http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=23">http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=23</a></b>	<b>1.513</b>
21.	Cosma, C., Cucuș, A., Papp, B., <b>Begy, R.</b> , Dicu, T., Moldovan, M., Truță, L.A., (...), Sainz, C., <b>Radon and remediation measures near Băița-Ștei old uranium mine (Romania)</b> , Acta Geophysica 61 (4) 2013 , pp. 859-875	<b>1.345</b>
22.	Cosma C., Cucuș A., Papp B., <b>Begy R.</b> , Dicu T., Moldovan M., Niță D., Burgehele B., Fulea D., Cîndea C., Dumitru O., Maloș C., Suci L. & Sainz C. <i>Radon measurements and radon remediation in Băița-Ștei uranium mine area., Carpathian Journal of Earth and Environmental Science, Volume 8, 2013 – Number 2, 191-199</i>	<b>0.883</b>
23.	Papp B., Cucuș A., Moldovan M., <b>Begy R.</b> , Dicu T., Niță D., Sainz C. & Cosma C. <i>International intercomparison exercise on natural radiation measurements under field conditions (IFC11). Romanian Journal of Physics, 2013 Vol. 58, Supplement, P. S210–S220, Bucharest.</i>	<b>0.745</b>
24.	Cosma, C., Cucuș-Dinu, A., Papp, B., <b>Begy, R.</b> , Sainz, C, <i>Soil and building material as main sources of indoor radon in Băița-ștei radon prone area (Romania) Journal of Environmental Radioactivity 116 ,2013 pp. 174-179</i>	<b>3.571</b>
25.	Cosma, C., Iurian, A.R., Niță, D.C., <b>Begy, R.</b> , Cîndea, C., <i>Indicators of the Fukushima radioactive release in NW Romania, Journal of Environmental Radioactivity 114 ,</i>	<b>3.571</b>

	2012 pp. 94-99	
26.	Cucoş Dinu, A, Cosma, C., Dicu, T , <b>Begy, R.</b> , Moldovan, M., Papp, B., Niță, D., Burghel, B., Sainz, C. <i>Thorough investigations on indoor radon in Băita radon-prone area (Romania)</i> <b>Science of the Total Environment</b> Volume 431, 1 August 2012, Pages 78-83	<b>3.582</b>
27.	C.Cosma, A.R.Iurian, D.C.Nita, <b>R. Cs. Begy</b> , C.Cindea “ <i>Considerations about the presence of FUKUSHIMA radionuclides in the NW part of ROMANIA</i> ” <b>Romanian journal of physics</b> 2011, 56 (9-10) , pp. 1199-1207	<b>0.745</b>
28.	O. A. Rusu , S. Dreve , <b>R. Cs. Begy</b> , D. C. Nita , L. D. Bobos , C. Cosma “ <i>Characteristics of formvar films used to prevent alpha-detector contamination</i> ”, <b>Journal of Radioanalytical And Nuclear Chemistry</b> , Volume 290, Issue 2 (2011) Page 241 – 245	<b>1.419</b>
29.	<b>Constantin D., Begy R.</b> , Vasiliniuc S., Panaiotu C., Necula C., Codrea V., <b>Timar-Gabor A.</b> . <i>High resolution OSL dating of the Costineti section Romania using fine and coarse quartz.</i> <b>Quaternary International</b> , 2014 334-335, pp. 20-29 <a href="http://www.sciencedirect.com/science/article/pii/S1040618213003492">http://www.sciencedirect.com/science/article/pii/S1040618213003492</a>	<b>2.128</b>
30.	Vasiliniuc, S., Timar-Gabor, A., Vandenbergh, D.A.G., Panaiotu, C.G., <b>Begy, R. Cs.</b> , Cosma, C., 2011. <i>A high resolution optical dating study of the Mostiștea loess-palaeosol sequence (SE Romania) using sand-sized quartz.</i> <b>Geochronometria</b> , 38(1), 34-41.	<b>1,25</b>
31.	Cosma C., Cucuș A., Papp B., <b>Begy R.</b> , Gabor A., Bican-Brișan N., Beșuțiu L. <i>Radon implication in life and earth science: Băița-ștei area and Peceneaga-Camena fault (Romania).</i> <b>2014 Carpathian Journal of Earth and Environmental Sciences</b> . Vol.9 issue 2, 15-21p	<b>0.730</b>
32.	Dolha M., Timar-Gabor A., Dicu T., <b>Begy R.</b> , Anton M., Cosma C. <i>A high-resolution map of gamma dose rates in Cluj County, Romania using LiF: Mg,cu,p detectors</i> 2014 <b>Radiation Protection Dosimetry</b> Vol:162, 14-19p	<b>0.894</b>
33.	Cosma C., Apostu A., Georgescu D., <b>Begy R.</b> <i>Evaluation of the radioactivity for different types of cements used in Romania</i> , <b>2009 Romanian Journal of Materials</b> , Vol. 39, 134-139p	<b>0.612</b>
	n ≥ 16 40xΣFI ≥ 500p	<b>2189p</b>
		<b>TOTAL=</b>

### Brevete

1	Sistem automatizat de monitorizare si control a concentratiilor radonului rezidential”, autori Robert Begy, Constantin Cosma, Alexandra Cucuș (Dinu), Carlos Sainz.Nr. 129264/G01T 1/16 <a href="http://www.osim.ro/publicatii/brevete/bopi_2014/bopi_inv_02_2014.pdf">http://www.osim.ro/publicatii/brevete/bopi_2014/bopi_inv_02_2014.pdf</a>	<b>20p</b>
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### Articole în reviste si volumele unor manifestari stiintifice, indexate în baze de date internationale și ISI proceedings

	Articol	ISI/ FI	p.
1.	B. Papp, C. Cosma, A. Cucuș (Dinu), R. Begy, T. Dicu, M. Moldovan, D. C. Niță, B. Burghel, C. Cindea, D. Fulea , C. Sainz (2012). Comparison measurement of radon in soil gas at radon reference sites in the Czech Republic (RIM 2010), <i>Studia AMBIENTUM</i> vol. 1 / 2012		5
2.	Rusu O. A., Begy R. Cs., Bobos L. D., Dreve S., Cosma C. (2011b) “Determination of long-lived radionuclides in water by alpha spectrometry”, <i>Advances in Environmental Sciences – International Journal of the Bioflux Society</i> , 3 (2) 148-155		5

3.			
4.	<b>C.cosma, A.R.Iurian, D.Nita, R.Begy and C.Cindea</b> , “Considerations about Iodine 131 Concentrations in Different Environmental Samples after the Fukushima and Chernobyl Nuclear Accidents”, publicat in Volumul suport CD al Conferinței Internaționale Nuclear_2011 „The 4 <sup>th</sup> Annual International Conference on Sustainable Development through Nuclear Research and Education” organizata de INR Pitești în cooperare cu Academia Română și Universitatea din Pitești, 25-27 mai 2011, Pitești, România		5
5.	<b>Begy, R.Cs.</b> , Timar Gabor A., Somlai J., Cosma C., 2011. A sedimentation study of St. Anna Lake (Romania) applying the <sup>210</sup> Pb and <sup>137</sup> Cs dating methods. <i>Geochronometria</i> , 38(2), 93-100. <a href="http://link.springer.com/article/10.2478/s13386-011-0017-6">http://link.springer.com/article/10.2478/s13386-011-0017-6</a> <b>Conferința internațională ”10<sup>th</sup> international conference “Methods of Absolute Chronology”, 21-25 April 2010, Gliwice, Poland.</b> ” A sedimentation study of St. Anna Lake (Romania) applying the <sup>210</sup> Pb and <sup>137</sup> Cs dating methods.” - <b>prezentare poster Robert Begy</b>	<b>ISI FI= 0.860</b>	5
6.	Vasiliniuc, S., Timar-Gabor, A., Vandenberghe, D.A.G., Panaiotu, C.G., <b>Begy, R. Cs.</b> , Cosma, C., 2011. A high resolution optical dating study of the Mostiștea loess-palaeosol sequence (SE Romania) using sand-sized quartz. <i>Geochronometria</i> , 38(1), 34-41. <a href="http://link.springer.com/article/10.2478/s13386-011-0007-8">http://link.springer.com/article/10.2478/s13386-011-0007-8</a> <b>Conferința internațională ”10<sup>th</sup> international conference “Methods of Absolute Chronology”, 21-25 April 2010, Gliwice, Poland.</b> “A high resolution optical dating study of the Mostiștea loess-palaeosol sequence (SE Romania) using sand-sized quartz” - <b>prezentare poster Stefan Vasiliniuc</b>	<b>ISI FI= 0.860</b>	5
7.	I.M. VARGA, R. Cs. BEGY, D.C.NițĂ, C. COSMA, “Preliminary results regarding the radioactivity level in the Zaghid mining area (Salaj county, ROMANIA)” ENVIRONMENTAL ISSUES IN THE CONTEXT OF SUSTAINABLE DEVELOPMENT Cluj Napoca: Bioflux, 2011 ISBN 978-606-8191-14-0		5
8.	O. A. Rusu, R. Cs. Begy, D.C. Nita, L.D. Bobos, C. Cosma „ <b>Alpha spectrometry using MnO<sub>2</sub> coated disc on the polyvinyl polymer substrate</b> ” <b>PROCEEDINGS OF THE „2th Terrestrial Radioisotopes in Environment International Conference on Environmental Protection”/ University of Pannonia, Veszprem /12 Mai 2010 /Veszprem/Ungaria CONFERENCE, PannonEgyetemi Kiado2011, ISBN 978 615 5044 05 2. Pp. 65-71</b>		5
9.	C.Cosma, A. Iurian, H. Lettner, R. Cs. Begy, D.C. Nita “Old and new aspects of post Chernobyl contamination in Romania and Austria, <b>PROCEEDINGS OF THE „2th Terrestrial Radioisotopes in Environment International Conference on Environmental Protection”/ University of Pannonia, Veszprem /12 Mai 2010 /Veszprem/Ungaria CONFERENCE, PannonEgyetemi Kiado2011 ISBN 978 615 5044 05 2.</b>		5
10.	Robert-Csaba Begy, Simon Hedvig, The Construction, calibration and testing of a radon detector for Earthquake monitoring Radon Forum and Radiation in Environment Satellite Workshop Veszprem 2013	ISI	5
11.	<b>Timar, A.</b> , Cosma, C., Benea, V., Begy, R., Jobbagy, V., Szeiler, G., Barbos, D., Fulea, D., <b>2007</b> . Estimation of environmental radionuclide concentration in soils, a comparison of methods for the annual radiation dose determination in luminescence dating. <i>Studia Universitatis Babeș-Bolyai, Geologia</i> , 52 (1), 80-81, Proceedings of the European Society for Isotope Research ESIR IX, June 23-28, ISSN 1221-0803. <a href="http://bioge.ubbcluj.ro/studia/2007_1.pdf">http://bioge.ubbcluj.ro/studia/2007_1.pdf</a> <b>Conferința internațională “IX<sup>th</sup> European Society for Isotope Research Workshop”,</b>	B+	5

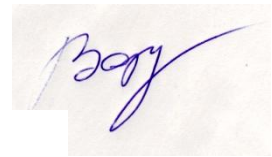
	<p><b>23-28 June 2007, Cluj-Napoca, Romania.</b>          "Estimation of environmental radionuclide concentration in soils, a comparison of methods for the annual radiation dose determination in luminescence dating"  <b>–prezentare orală Alida Timar-Gabor</b></p>		
12.	A. Cucos (Dinu), C. Cosma, T. Dicu, PappBotond, Robert Begy, M. Moldovan, D. C. Niță, B. Burghel, C. Cîdea, D. Fulea, C. Sainz, M. Neznal, M. Neznal, 2011, RADON DIAGNOSTIC MEASUREMENTS IN A PILOT HOUSE FROM ȘTEI – BĂIȚA REGION, ROMANIA, StudiaAmbientum, 56 (LVI), 31-42pp.		5
13.	BOTOND PAPP, CONSTANTIN COSMA, ALEXANDRA CUCOS (DINU), ROBERT BEG TIBERIU DICU, MIRCEA MOLDOVAN, DAN C. NITA, BETTY BURGHELE, CIPRIAN CİNDEA, DAN FULEA, CARLOS SAINZ, 2011, International Intercomparisons of Radon Devices and Solid State Nuclear Detectors in Czech Republic, StudiaAmbinetum, 56 (LVI), 56-68pp.		5
14.	Oana Alexandra RUSU, Robert Csaba BEGY, Dan Constantin NIȚĂ, Constantin COSMA, 2010, DETERMINATION OF RADIUM FROM ENVIRONMENTAL SAMPLES USING MANGANESE DIOXIDE COATED DISCS FOLLOWED BY ALPHA SPECTROMETRY (DETERMINAREA RADIULUI DIN MEDIU PRIN FOLOSIREA DISCURILOR DE MANGAN, URMATĂ DE ALFA SPECTROMETRIE), Ecoterra, 25, 175-180pp.	BDI	5
15.	<b>Timar-Gabor, A., Cosma, C., Begy, R., Jobaggy, V., Szeiler, G., Barbos, D., Fulea, D. 2011.</b> Estimation of radionuclides in soils – a comparison of methods for annual dose estimation in luminescence dating, <b>ECOTERRA</b> , 26, 119-124. <a href="http://www.ecoterra-online.ro/ro/numarul26-2011/">http://www.ecoterra-online.ro/ro/numarul26-2011/</a> Simpozionul national cu participare internationala "Contribuții științifice în tehnologii și echipamente pentru evaluarea și protecția mediului", Septembrie 2010, Arcalia, Bistrița-Năsăud. <b>- prezentare poster Alida Timar-Gabor</b>	BDI	5
16.	Constantin COSMA, Andra-Rada IURIAN, Dan Constantin NIȚĂ, Robert BEGY, 2011, PRESENCE OF RADIOACTIVE I-131 FROM FUKUSHIMA IN NORTH-WEST ROMANIA PREZENȚA I-131 RADIOACTIV DE LA FUKUSHIMA ÎN NV-UL ROMÂNIEI, Ecoterra, 27, 19-24 pp.	BDI	5
17.	Alexandra CUCOȘ (DINU), C. COSMA, T. DICU, B. PAPP, D. C. NIȚĂ, R. BEGY, M. MOLDOVAN, C. CÎNDEA, D. FULEA, 2011 THE PRESENT SITUATION OF INDOOR RADON MEASUREMENTS AND THE PERSPECTIVE OF REMEDIATION ACTION IN BĂIȚA-BIHOR (ROMANIA) MINING AREA SITUAȚIA ACTUALĂ A MĂSURĂTORII DE RADON INDOOR ȘI PERSPECTIVA ACȚIUNILOR DE REMEDIERE ÎN ZONA MINIERĂ BĂIȚA-BIHOR (ROMÂNIA), Ecoterra, 27, 25-32 pp.	BDI	5
18.	Tiberius DICU, Constantin COSMA, Alexandra CUCOȘ (DINU), Robert BEGY, Botond PAPP, Mircea MOLDOVAN, Dan Constantin NIȚĂ, Ciprian CÎNDEA, Dan FULEA, 2011, A COST-EFFECTIVENESS ANALYSIS OF A RESIDENTIAL RADON REMEDIATION PROGRAMME IN BĂIȚA-BIHOR (ROMANIA) MINING AREA ANALIZA COST-BENEFICIU A PROGRAMULUI DE REMEDIERE A RADONULUI REZIDENȚIAL DIN ZONA MINIERĂ BĂIȚA-BIHOR (ROMANIA), Ecoterra, 28, 63-66 pp.	BDI	5
19.	Constantin Cosma, O. A. Dumitru, Dan Constantin Niță, Robert Begy, Alexandra Cucos, Andra Iurian, Mircea Moldovan, Botond Papp, Tiberius Dicu, Betty Burghel, 2012, PRELIMINARY RESULTS OF NATURAL RADIOACTIVITY MEASUREMENTS IN SOME BUILDING MATERIALS FROM URANIUM MINE AREA BĂIȚA, ROMANIA BY GAMMA SPECTROMETRY PRELIMINARY RESULTS OF NATURAL RADIOACTIVITY MEASUREMENTS IN SOME BUILDING MATERIALS FROM URANIUM MINE AREA BĂIȚA, ROMANIA BY GAMMA SPECTROMETRY, Ecoterra,	BDI	5

	33, 78-83 pp.		
20.	Alexandra Cucuș (Dinu), Constantin Cosma, Oana Alexandra Dumitru, Tiberius Dicu, Botond Papp, Dan Constantin Niță, Robert Begy, Mircea Moldovan, Bety Burghele, Carlos Sainz, Liviu Suciuc, 2013, A SHORT DESCRIPTION OF SOME RADON CONCENTRATION REMEDIATION METHODS IMPLEMENTED IN 20 HOUSES FROM MINING AREA BĂIȚA BIHOR (ROMANIA) SCURTĂ DESCRIERE A METODELOR DE REMEDIERE ÎN 20 DE CASE DIN ZONĂ MINIERĂ BĂIȚA-BIHOR (ROMÂNIA), Ecoterra, 36, 17-21 pp.	BDI	5
21.	Tiberius Dicu, Paula Astaluș, Constantin Cosma, Alexandra Cucuș (Dinu), Oana Alexandra Dumitru, Botond Papp, Mircea Moldovan, Robert Begy, Carlos Sainz, 2013, EVALUATION OF LUNG CANCER DEATHS DUE TO INDOOR RADON EXPOSURE IN FOUR COUNTIES FROM ROMANIA EVALUAREA NUMĂRULUI DE DECESE DUE TO LUNG CANCER PULMONAR ATRIBUIBILĂ RADONULUI REZIDENȚIAL ÎN PATRU JUDEȚE DIN ROMÂNIA, Ecoterra, 36, 32-36 pp.	BDI	5
22.	Cosma, C., Sainz, C., Cucuș, A., Dicu, T., Begy, R., Moldovan, M., Papp, B., Niță, D., (2011) Implementarea tehnicilor de remediere a radonului în locuințele din zona minei uranifere Băița/IRART. în volumul Conferinței Naționale a Societății Române de Radioprotecție, Ed. ETNA, p.6-11	BDI	5
23.	C. Cosma, A. Dinu, R. Cs. Begy, T. Dicu, M. Moldovan, B. Papp, D. Nita, C. Candea, D. Fulea, B. Burghele, 2011, Radon Measurements in a High Radon Prone Area: New Indoor, Water and Soil Measurements, PROCEEDING OF THE VI. Magyar Radon Fórum, University of Pannonia, Veszprém /16 Mai 2011- / Veszprem/ UNCONFERENCE, Pannon Egyetemi Kiadó 2011 ISBN 978-615-5044-51-9	BDI	5
24.	R. Cs. Begy, C. Cosma, Measurements of Rn-222 and Ra-226 Content in Thermal and Carbonate Spring Waters from Harghita and Bihor County, (Romania), PROCEEDING OF THE VI. Magyar Radon Fórum, University of Pannonia, Veszprém /16 Mai 2011- / Veszprem/ UNCONFERENCE, Pannon Egyetemi Kiadó 2011 ISBN 978-615-5044-51-9	BDI	5
	Profesor: minimum 16		
		<b>TOTAL=</b> <b>(puncte)</b>	<b>115</b>

Director/responsabil: Conferențiar minimum 1 (granturi/proiecte/contracte)

Contract	Punctaj (10 puncte/5000 euro)
<b>Director Grant TE/ CNCS-UEFISCDI PN II- RU-TE-2012-3-0351/ 2013-2016</b> (valoare 175 000 Eur) – Studiul influenței antropice asupra proceselor de sedimentare în Delta Dunării utilizând radionuclizi	350
<b>Director Grant PNII TD/ cod CNCSIS 397 / 2008 -2009</b> (valoare totală 21 183 RON (curs euro 2009 2.49 Ron) – Studii de mediu prin utilizarea radioizotopului Pb-210	17
<b>Director Grant UBB, GTC- 34072/2013</b>	10
	<b>TOTAL=</b>
	<b>377</b>

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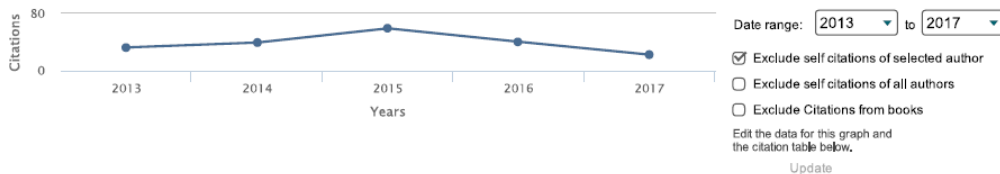
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		<2013	2013	2014	2015	2016	2017	Subtotal	>2017	Total
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5	Sediment dynamics and heavy metal pollution history of the C... 2016					1	1	2		2
6	Recent sediment accumulation rates in contrasting lakes in t... 2016					1		1		1
7	<sup>210</sup>Po inhalation due to smoking: a do... 2015					1		1		1
8	An improved procedure for the determination of <sup>210</sup>Pb... 2015							0		0
9	Determination of sedimentation rates of a northern Danube De... 2015							0		0
10	Efficiency testing of Red Lake protection dam on Rosu stream... 2015							0		0
11	High-resolution OSL dating of the Costinești section (Dobrog... 2014			1	8	5		14		14
12	Radon implication in life and earth science: Băița-Ștei area... 2014				3	2		5		5
13	A high-resolution map of gamma dose rates in Cluj County, Ro... 2014						1	1		1
14	Uranium electrodeposition for alpha spectrometric source pre... 2013				1	1	1	3		3
15	The activity concentration of <sup>210</sup>Po in romanian c... 2013							0		0
16	Comparative assessment of erosion and deposition rates on cu... 2013			1	1	3		5		5
17	Radon and remediation measures near Băița-Ștei old uranium m... 2013			1	1	1	1	4		4
18	Radon measurements and radon remediation in băița-ștei prone... 2013			1	2	2	1	6		6
19	International intercomparison exercise on natural radiation ... 2013			1	1	1	2	5		5
20	Radiological assessment of stream sediments between Băița-Pl... 2013				1	1		2		2
21	Soil and building material as main sources of indoor radon i... 2013		4	5	13	5	4	31		31
22	Indicators of the Fukushima radioactive release in NW Romani... 2012		6	2	5	2		15		15
23	Thorough investigations on indoor radon in Băița radon-prone... 2012		6	11	8	5	3	33		33
24	SAR-OSL dating of different grain-sized quartz from a sedime... 2012		2	5	6	3	2	18		18
25	Protection of alpha spectrometry detectors using thin formva... 2012							0		0

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nr	Articol	Nr. Citari
1.	<b>Begy, R.C.</b> , Kovacs, T., Veres, D., Simon, H., <b>2016</b> . <i>Atmospheric flux, transport and mass balance of <math>^{210}\text{Pb}</math> and <math>^{137}\text{Cs}</math> radiotracers in different regions of Romania</i> . <b>Appl. Radiat. Isot.</b> 111, 31-39.	<b>1</b>
2	<b>Begy, R.-C.</b> , Preoteasa, L., Timar-Gabor, A., Mihaiescu, R., Tanaselia, C., Kelemen, S., Simon, H., <b>2016</b> . <i>Sediment dynamics and heavy metal pollution history of the Cruhlig Lake (Danube Delta, Romania)</i> . <b>J. Environ. Radioact</b> 153, 167-175.	<b>2</b>
3	<b>Begy, R.C.</b> , Dumitru, O.A., Simon, H., Steopoaie, I., <b>2015</b> . <i>An improved procedure for the determination of <math>^{210}\text{Po}</math> by alpha spectrometry in sediments samples from Danube Delta</i> . <b>J. Radioanal. Nucl. Chem.</b> 303 (3), 2553-2557.	
4	<b>Begy, R.-C.</b> , Simon, H., Kelemen, S., Reizer, E., Preoteasa, L., <b>2015</b> . <i>Determination of sedimentation rates of a northern Danube Delta lake by <math>^{210}\text{Pb}</math> method</i> . <b>Carpath. J. Earth Environ. Sci.</b> 10 (4), 191-194	
5	<b>Begy, R.-C.</b> , Simon, H., Reizer, E., <b>2015</b> . <i>Efficiency testing of Red Lake protection dam on Rosu stream by <math>^{210}\text{Pb}</math> method</i> . <b>J. Radioanal. Nucl. Chem.</b> 303 (3), 2539-2545.	
6	<b>Begy, R.C.</b> , Timar-Gabor, A., Somlai, J., Cosma, C., <b>2011</b> . <i>A sedimentation study of St. Ana Lake (Romania) applying the <math>^{210}\text{Pb}</math> and <math>^{137}\text{Cs}</math> dating methods</i> . <b>Geochronometria</b> 38 (2), 93-100.	<b>7</b>
7	<b>R. Begy</b> , C. Cosma, Z. Horvath, <b>2009</b> . <i>Sediment accumulation rate in the "Red Lake" (ROMANIA) determined by Pb-210 and Cs-137 radioisotopes</i> <b>Rom. J. Phys.</b> 54, 9-10	
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9	<b>Begy R. CS.</b> , Dreve S., Timar-Gabor A. , Rusu O.A., Cosma C., <b>2012</b> . <i>Measurement of radium content in some spring waters from Romania</i> . <b>Environmental Engineering and Management Journal</b> , vol 11, nr 2, 1005-1009.	<b>4</b>
10	<b>R. Cs. Begy</b> , J. Somlai, T. Kovacs, O. A. Dumitru (Rusu) and C. Cosma <i>The activity concentration of <math>^{210}\text{Po}</math> in romanian commercial cigarettes and the radiation exposure estimation derived from their regular consumption</i> . <b>Radiation Protection Dosimetry</b> <b>2013</b> . , pp. 1–5. doi:10.1093/rpd/nct121	
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13	<b>R.Cs. Begy</b> , H. Simon, C. Cosma <i>Radiological Assessment of Stream Sediments between Băița-Plai and Beiuș</i> , Romanian Journal of Physics 2013, Vol. 58, Supplement, P. S22–S28, Bucharest.	<b>2</b>
14	Simon, H., Kelemen, S., <b>Begy, R.-C.</b> <i>Anthropic influences on the sedimentation rates of lakes situated in different geographic areas</i> . <b>J. Environ. Radioact.</b> , DOI: 10.1016/j.jenvrad.2016.09.001	
15	Hutchinson, S.M. , Akinyemi, F.O. , Mîndrescu, M. , <b>Begy, R.</b> , Feurdean, A. <i>Recent sediment accumulation rates in contrasting lakes in the Carpathians (Romania): impacts of shifts in socio-economic regime</i> (Article in press) <b>Regional Environmental Change</b> 17 February 2015, 13p	<b>1</b>
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19	Constantin D., <b>Timar-Gabor A.</b> , Veres D., Begy R., Cosma C., <b>2012. SAR-OSL dating of quartz of different grain sizes extracted from a loess section in southern Romania embedding the Campanian Ignimbrite/Y5 tephra layer</b> , <b>Quaternary Geochronology</b> , 10, 81-86. <a href="http://www.sciencedirect.com/science/article/pii/S1871101412000143">http://www.sciencedirect.com/science/article/pii/S1871101412000143</a>	<b>18</b>
20	Cosma, C., Rusu O.A., Cosma, V., Nita, D., Begy, R. Cs., Timar-Gabor, A., Astilean, A., <b>2012. Protection of Alpha Spectrometry Detectors Using Thin Formvar Films and Influence on Detection Characteristics</b> , IEEE Transactions on Nuclear Science 59 (4 PART 1), art. No. 6153411, pp. 1175-1179 DOI:10.1109/TNS.2012.2184802. <a href="http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=23">http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=23</a>	<b>1</b>
21	Cosma, C., Cucuș, A., Papp, B., <b>Begy, R.</b> , Dicu, T., Moldovan, M., Truță, L.A., (...), Sainz, C., <b>Radon and remediation measures near Băița-Ștei old uranium mine (Romania)</b> , Acta Geophysica 61 (4) 2013 , pp. 859-875	<b>4</b>
22	Cosma C., Cucuș A., Papp B., <b>Begy R.</b> , Dicu T., Moldovan M., Niță D., Burghele B., Fulea D., Cîndea C., Dumitru O., Maloș C., Suciuc L. & Sainz C. . <b>Radon measurements and radon remediation in Băița-Ștei uranium mine area.</b> , Carpathian Journal of Earth and Environmental Science, Volume 8, 2013 – Number 2, 191-199	<b>6</b>
23	Papp B., Cucuș A., Moldovan M., <b>Begy R.</b> , Dicu T., Niță D., Sainz C. & Cosma C. <b>International intercomparison exercise on natural radiation measurements under field conditions (IFC11)</b> . Romanian Journal of Physics, 2013 Vol. 58, Supplement, P. S210–S220, Bucharest.	<b>5</b>
24	Cosma, C., Cucuș-Dinu, A., Papp, B., <b>Begy, R.</b> , Sainz, C, <i>Soil and building material as main sources of indoor radon in Băița-ștei radon prone area (Romania)</i> <b>Journal of Environmental Radioactivity</b> 116 ,2013 pp. 174-179	<b>31</b>
25	Cosma, C., Iurian, A.R., Niță, D.C., <b>Begy, R.</b> , Cîndea, C., <i>Indicators of the Fukushima radioactive release in NW Romania</i> , <b>Journal of Environmental Radioactivity</b> 114 , 2012 pp. 94-99	<b>15</b>
26	Cucuș Dinu, A, Cosma, C., Dicu, T , <b>Begy, R.</b> , Moldovan, M., Papp, B., Niță, D., Burghele, B., Sainz, C. <i>Thorough investigations on indoor radon in Băița radon-prone area (Romania)</i> <b>Science of the Total Environment</b> Volume 431, 1 August 2012, Pages 78-83	<b>33</b>
27	C.Cosma, A.R.Iurian, D.C.Nita, <b>R. Cs. Begy</b> , C.Cindea “ <i>Considerations about the presence of FUKUSHIMA radionuclides in the NW part of ROMANIA</i> ” <b>ROMANIAN Journal of physics</b> 2011, 56 (9-10) , pp. 1199-1207	<b>5</b>
28	O. A. Rusu , S. Dreve , R. Cs. Begy , D. C. Nita , L. D. Bobos , C. Cosma “ <i>Characteristics of formvar films used to prevent alpha-detector contamination</i> ”, Journal Of Radioanalytical And Nuclear Chemistry, Volume 290, Issue 2 (2011) Page 241 – 245	<b>5</b>
29	Constantin D., <b>Begy R.</b> , Vasiliniuc S., Panaiotu C., Necula C., Codrea V., <i>Timar-Gabor A.. High resolution OSL dating of the Costineti section Romania using fine and coarse quartz.</i> <b>Quaternary International</b> , 2014 334-335, pp. 20-29	<b>14</b>

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30	Vasiliniuc, S., Timar-Gabor, A., Vandenberghe, D.A.G., Panaiotu, C.G., <b>Begy, R. Cs.</b> , Cosma, C., 2011. <i>A high resolution optical dating study of the Mostiștea loess-palaeosol sequence (SE Romania) using sand-sized quartz</i> . <b>Geochronometria</b> , 38(1), 34-41.	25
31	Cosma C., Cucuș A., Papp B., <b>Begy R.</b> , Gabor A., Bican-Brișan N., Beșuțiu L. <i>Radon implication in life and earth science: Băița-ștei area and Peceneaga-Camena fault (Romania)</i> . <b>2014 Carpathian Journal of Earth and Environmental Sciences</b> . Vol.9 issue 2, 15-21p	5
32	Dolha M., Timar-Gabor A., Dicu T., <b>Begy R.</b> , Anton M., Cosma C. <i>A high-resolution map of gamma dose rates in Cluj County, Romania using LiF: Mg,cu,p detectors</i> 2014 <b>Radiation Protection Dosimetry</b> Vol:162, 14-19p	
33	Cosma C., Apostu A., Georgescu D., <b>Begy R.</b> <i>Evaluation of the radioactivity for different types of cements used in Romania</i> , <b>2009 Romanian Journal of Materials</b> , Vol. 39, 134-139p	5
TOTAL		213
<b>639p</b>		

### CENTRALIZATOR

	<u>Condiții minime CS I CNATDCU</u>	<u>Dr. Begy Robert-Csaba</u>
Activitatea didactica/ profesionala (A1)	Optional	34
Activitatea de cercetare (A2)	Minimum 500 puncte	2701
Recunoasterea impactului activitatii (A3)	Minimum 120 puncte	639
<b><u>TOTAL</u></b>	<b>Minimum 830 puncte</b>	<b>3374</b>

	<u>Condiții minime CS I UBB</u>	<u>Dr. Begy Robert-Csaba</u>
A1	Optional	34
A.2.1 – Articole in extenso – în reviste cotate ISI	$n \geq 16$ $40 \times \sum FI \geq 500p \geq 500p$	$n=33$ $40 \times \sum FI = 2189$
A.2.2 Brevete de invenție	neschimbat	1
A. 2.3 Articole indexate în baze de date internaționale ISI/BDI	$\geq 20$	24
A2.4 Granturi/ proiecte câștigate prin competiție	$\geq 2$	3
A3	$\geq 90$	639
Total	$\geq 925$	3374

14.06.2017

Dr. Begy Robert-Csaba