

## Europass Curriculum Vitae



### Personal information

**First name(s) / Surname** **Octavian-Gheorghe DULIU**  
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**Nationality** Romanian  
  
**Date of birth** 14.02.47  
  
**Gender** Male

**Occupational field** **Professor / Atomic and Nuclear Physics/ Ph.D. adviser**

### Work experience

Dates	01.10.1999 → now
Occupation or position held	<b>Professor/</b> Department of Atomic and Nuclear Physics
Main activities and responsibilities	<b>Teaching:</b> Dosimetry and Radioprotection, Physical Principles of X and Gamma ray imaging, Radiation ecology, Applications of Atomic and Nuclear Methods of Investigation, Magnetic Resonance <b>Researching:</b> Radiographic and Axial Computer Tomographic investigation of rocks and sedimentary formations - Instrumental Neutron Activation Analysis and Radiometric Assay in geosciences - Ultra-low background radiation laboratory, Environmental radioactivity - Neutrino detection - Radioactive waste management - Radiometric age methods ( $^{137}\text{Cs}$ , $^{230}\text{Th}_{\text{excess}}$ and $^{231}\text{Pa}_{\text{excess}}$ , $^{210}\text{Pb}$ ) - Atomic and nuclear methods in the expertise of work of art. - Electron Paramagnetic Resonance in life sciences and geology
Dates	01.10.1996-30.09.1999
Occupation or position held	<b>Associate professor/</b> Department of Atomic and Nuclear Physics
Dates	01.10.1990 – 30.09.1996
Occupation or position held	<b>Lecturer/</b>
Dates	15.09.1980 – 30.09.1990
Occupation or position held	<b>Assistant Professor/</b> Department of Atomic and Nuclear Physics
Dates	01.10.1969 – 14.09.1980
Occupation or position held	<b>Physicist/</b> Department of Atomic and Nuclear Physics
Name and address of employer	University of Bucharest, Department of Atomic and Nuclear Physics 405, Atomistilor str., 077125 Magurele (Ilfov), Romania
Type of business or sector	Education, research

### Education and training

Dates	01.10.2004 – 30.10.2011
Title of qualification awarded	<b>Ph.D.</b> in Geology “The study of Holocene depositional cycles in the Black Sea: paleoenvironmental reconstructions”

Principal subjects/occupational skills covered	Geochemistry, sedimentology, absolute geochronology, single and dual-energy computed tomography and digital radiography, radiometric assay, time series analysis, instrumental neutron activation analysis, uni and multi-variate statistical analysis
Name and type of organization providing education and training	University of Bucharest, Department of Geology
Level in national or international classification	ISCED 7
Dates	24.09.1970 – 31.10.1973
Title of qualification awarded	<b>Ph.D.</b> in Physics “Electron paramagnetic resonance investigation of some iron group ions in monoclinic tungstates
Name and type of organization providing education and training	Electron paramagnetic resonance, microwave technique, spectra simulation
Name and type of organization providing education and training	Institute of Semiconductors, Ukrainian Academy of Science, UKRAINE (former USSR)
Level in national or international classification	ISCED 7
Dates	10-20.05.2008, 11-23.11.2008, 25.05-09.06.2009, 01-24.11.2009 25.05-10.06.2011, 09-23.11.2012, 19.08-06.09.2013 26.05-25.06.2014, 15.05-05.09.2015, 20.10-02.11.2015, 16.05-17.09.2016, 22.05-21.09.2017, 23-30.11.2017, 15.03-
Title of qualification awarded	<b>Research stage</b> Skills covered:
Principal skills covered	Instrumental Neutron Activation Analysis
Name and type of organization providing education and training	Joint Institute for Nuclear Research, Dubna, Russian Federation
Level in national or international classification	ISCED 6
Dates	30/09/1996 – 15/06 /1997
Title of qualification awarded	<b>Courses attending</b> Skills covered:
Principal subjects/occupational skills covered	Dosimetry & radioprotection, NMR tomography, Medical Physics,
Name and type of organization providing education and training	University of Patras, Patras, Greece
Level in national or international classification	ISCED 5
Dates	15/11/1982 – 15/02/1983 15/10/1983 – 30/12/1983
Principal subjects/occupational skills covered	Classic superconductivity
Name and type of organization providing education and training	Joint Institute for Nuclear Research, Dubna, Russian Federation
Level in national or international classification	ISCED 6
Dates	01/9/1994 - 21/09/1994
Title of qualification awarded	<b>Autumn school of Medical Physics</b> Skills covered:
Principal subjects/occupational skills covered	Dosimetry & radioprotection, NMR tomography, Medical Physics,
Name and type of organization providing education and training	International Center for Theoretical Physics, Trieste, Italy
Level in national or international classification	ISCED 5
Dates	01/10/1993 - 30/10/1994
Title of qualification awarded	<b>International School on Synchrotron Radiation</b> Skills covered:
Principal subjects/occupational skills covered	Accelerator physics, radiation interaction with matter, X-ray spectroscopy, solid state physics

Name and type of organization providing education and training International center for Theoretical Physics, Trieste, Italy

Level in national or international classification ISCED 5

Dates 01/10/1964 - 26/06/1969

Title of qualification awarded License in Nuclear Physics

Principal subjects/occupational skills covered Nuclear spectroscopy, experimental methods in nuclear physics, theory of nucleus, high energy physics

Name and type of organization providing education and training University of Bucharest, Department of Physics405, Atomistilor str., 077125 Magurele (Ilfov), Romania

Level in national or international classification ISCED 5

Dates 15/09/1960 - 04/07/1964

Title of qualification awarded Baccalaureate

Principal subjects/occupational skills covered Mathematics and Physics

Name and type of organization providing education and training "Iulia Hasdeu" National College 91, Ferdinand I Bvd, Bucharest, Romania

Level in national or international classification ISCED 3

## Personal skills and competences

Mother tongues **Romanian, Aromanian**

Other languages)

Self-assessment

European level (\*)

**English**

**Russian**

**French**

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user
C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user
C1 Basic user	C1 Basic user	B1 Basic user	B1 Basic user	B1 Basic user

(\*) Common European Framework of Reference for Languages

Social skills and competences Team work: I have worked in various types of teams both aboard and in Romania (Ph.D. research, 10 research projects as Director or Responsible representing the University of Bucharest)

Capacity for prediction and planning in complex projects and tasks

Organizational skills and competences Self-organizing and other team member coordination skills  
Good experience in team and project management (3 10 research projects as Director or Responsible representing the University of Bucharest)

Technical skills and competences Data and image processing  
Familiar with microwave technique

Computer skills and competences **Specialized soft**  
ImageJ, PAST, Statistica, Corel suite, Adobe Photoshop, Origin, Matlab, Arduino  
**General soft**  
MS Office, Open Office, Latex  
**Operating systems**  
Windows, Linux

Other skills and competences    Technical and non-technical projects  
Academic documents (plans, syllabus, curricula documents, etc.)  
Writing books for academic use

**Hobby**

Stamps collecting  
Mountain hiking.

Driving license    B

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**Authorized list of papers, books, patents and prizes**

**A. ARTICLES**

**International Journals**

1. N. RAILEANU, I. RADULIAN, O.G. DULIU (1972) Phenothiazonic Cation Radicals - *Collection of the Czechoslovak Chemical Communications* **37** : 470 - 480
2. A.A. BUGAI, O.G. DULIU, V.M. MAKSIMENKO, Iu. B. SCHEVCENKO (1972) Temperaturnoe izmenenie veliciny rassceplenia linii EPR iona  $Cr^{3+}$  v  $ZnWO_4$  vo vneschnem elektriceskom pole - *Fizica Tverdogo Tela* **14** : 573 - 575 (in Russian)
3. A.A. BUGAI, O.G. DULIU, B.K. KRULIKOVSKII, A.B. ROITSIN (1973) EPR at Low Concentration. The Superhyperfine structure of  $Fe^{3+}$  in  $ZnWO_4$ . - *physica status solidi (b)*, **57** : K 15 - K 16
4. A.A. BUGAI, O.G. DULIU, B.K. KRULIKOVSKII, A.B. ROITSIN (1973) Proiavlennie efektov nizkoj simmetrii v paramagnitnom rezonanse  $Fe^{3+}$  in  $ZnWO_4$ . - *Fizica Tverdogo Tela* **15** : 2842 – 2843 (in Russian)
5. A.A. BUGAI, O.G. DULIU, B.K. KRULIKOVSKII, A.B. ROITSIN (1974) Efekty nizkoj simetrii v paramagnitnom rezonanse - *Ukrainski fiziceski jurnal* **19** : 1161 - 1166 (in Russian)
6. O.G. DULIU, V. VOLJIN (1979) The EPR Investigation of the Sorption Process by Marine Sediments - *Rapport et Communications de la Societe Internationale pour l'etude de la Mer Mediterranee* **25/26** : 5 - 8
7. O.G. DULIU, LUCRETIA DINESCU, M.C. DINESCU, R.D. DORCIOMAN, N.G. MIHAILESCU, I. S. VANGHELE (1996) Some considerations concerning  $^{137}Cs$  vertical profile in Danube Delta: Matita Lake core - *the Science of the Total Environment* **188** : 9 – 14; WOS:A1996VJ17900002
8. A.D. STIRBET, O.G. DULIU (1996) Electron Paramagnetic Resonance Investigation of the Interaction of Nitroxyl Spin Labels with Photosynthetic Membranes - *Journal of Biological Physics* **22**: 175 – 185; WOS:A1996WD38700003
9. O.G. DULIU, S. SZOBOTCA, M. TUFAN (1997) Reconstructive Computer Tomography Investigation of Polymetallic Nodules - *Marine Geology* **138** : 303 - 311
10. O. G. DULIU, LUCRETIA C. DINESCU, N. MIHĂILESCU, I. VANGHELIE, A. DINESCU (1997) Vertical Distribution of Some Microelements in Danube Delta: Matita Lake Cores - *Journal of Trace and Microprobe Techniques*, **15** : 273 – 280; WOS:A1997XQ55600003
11. I. NAZARENCO, O.G. DULIU (1997) High reliability photoconducting system  $CdS:Cr_2O_3$  using ceramic technology - *Journal of the European Ceramic Society* **17**: 1757 – 1760; WOS:A1997YJ43100013
12. E. A. PREOTEASA, O.G. DULIU, V. V. GRECU (1997) EPR Study of Complex Formation between the Copper Ion and Sympathomimetic Amines in Aqueous Solution - *Il Nuovo Cemento D* **19**: 967 - 974
13. V.V.GRECU, O.G. DULIU, S. PASCANU, C. OPROIU, R. GEORGESCU, M.I. CHIPARA (1997) Radiation - specific free radicals in biological systems: detection and applications - *Physica Medica*, **13** : 272 - 273
14. O.G. DULIU, N. MIHAILESCU (1998) Radiographic Investigation of Danube River and Danube Delta Sedimentary Cores *Acta Geologica Hungarica* **41**: 121 - 138
15. L.C. DINESCU, O. G. DULIU, M. BADEA, N. G. MIHĂILESCU, I. M. VANGHELIE (1998) INAA investigation of the vertical distribution of major and trace elements in Matita Lake (Danube Delta) sediments - *Journal of Radioanalytical and Nuclear Chemistry* **238**: 75 - 81
16. O.G. DULIU, L.C. DINESCU, G. SKLIROS (1999) INAA study of some major and trace elements distribution in Greek limestone and marbles - *Journal of Trace and Microprobe Techniques*, **17** : 165 - 176

17. O.G. DULIU (1999) Computer Axial Tomography in geosciences: an overview - *Earth-Science Review* **48** : 265 - 281
18. O.G. DULIU, M. FERDES, O. FERDES (2000) EPR investigation of irradiated *Monascus purpureus* red pigment - *Radiation Physics and Chemistry* **57** : 95 - 101
19. O.G. DULIU, L.C. DINESCU, N.G. MIHAILESCU (2000) On the distribution of <sup>137</sup>Cs in lacustrine sediments of the Danube Delta - *Journal of Trace and Microprobe Techniques* **18** :
20. L.C. DINESCU, O.G., DULIU, E. ANDRIES (2000) INAA investigation of the major and trace elements in some lakes of the Danube Delta - *Journal of Radioanalytical and Nuclear Chemistry* **244** : 147-152
21. O.G. DULIU (2000) Electron Paramagnetic Resonance identification of irradiated cuttlefish (*Sepia officinalis* L) - *Applied Radiation and Isotopes* **52**: 1385-1390
22. A. WIESER, K. MEHTA, S. AMIRA, D. ARAGNO, S. BERCEA, A. BRIK, A. BUGAI, F. CALLENS, V. CHUMAK, B. CIESIELSKI, R. DEBUYST, O.G. DULIU, P. FATTIBENE, E.H. HASKELL, R.B. HAYES, E.A. IGNATIEV, A. IVANNIKOV, V. KIRILLOV, E. KLESCHENKO, N. NAKAMURA, J. NOWAK, S. ONORI, B.P. PASS, S. PIVOVAROV, A. ROMANYUKHA, A.I. SCHAMES, O. SCHERBINA, S. SHOLOM, D.D. TIKOUNOV, S. TOYODAThe 2nd International Intercomparison on EPR tooth dosimetry - *Radiation Measurements* **32**: 549-557
23. C.T. RIZESCU, G.N. GEORGESCU, O.G. DULIU (2001) High density mineral inclusions in rocks evidenced by gamma-ray tomodensitometry - *Journal of Trace and Microprobe Techniques* **19**: 119-129
24. L.C. DINESCU, O.G. DULIU (2001) Neutron activation analysis investigation of the heavy elements pollution in some lakes of the Danube Delta - *Applied Radiation and Isotopes* **54**: 853-859
25. O.G. DULIU, M. EPURASI, V. TRANDAFIR (2001) EPR investigation of the gamma-ray irradiated natural and tanned collagen - *Applied Radiation and Isotopes* **54**: 887-891
26. S. S. GANATSIOS, L. I. TSIKRITZIS, O.G. DULIU, T. D. SAWIDIS (2001) Natural <sup>228</sup>Ra, <sup>226</sup>Ra and <sup>40</sup>K and artificial <sup>137</sup>Cs radionuclides distribution in soil in areas of lignite power plants of Western Macedonia - *Journal of Trace and Microprobe Techniques* **19**: 259-266
27. C.T. RIZESCU, G.N. GEORGESCU, O.G. DULIU, S.A. SZOBOTKA (2001) 3-D dual gamma-ray computer axial tomography investigation of polymetallic nodules - *Deep Sea Research I* **48**: 2529-2540
28. L.I. TSIKRITZIS, S.S. GANATSIOS, O.G. DULIU, C.V. KAVOURIDIS, T.D. SAWIDIS (2002) Trace elements distribution in soil in areas of lignite power plants of Western Macedonia - *Journal of Trace and Microprobe Techniques* **20**: 269-282.
29. L.T. TZIKRITZIS, S.S. GANATSIOS, O.G. DULIU, T. SAWIDIS (2002) Plants and lichens as bioindicators of pollution process in the vicinity of lignite power plants in Western Macedonia - *Journal of Trace and Microprobe Techniques* **20**: 395-414
30. O.G. DULIU, F.PREOTEASA, C.T. RIZESCU, G.G. GEORGESCU (2003) X- and  $\gamma$ -ray CAT investigation of *Fungia fungites* L. (Cnidaria, Scleractinia) coral skeleton - *Journal of Trace and Microprobe Techniques* **21**: 493-500
31. L.T. TZIKRITZIS, S.S. GANATSIOS, O.G. DULIU, T. SAWIDIS (2003) Natural and artificial radio nuclides distribution in some lichens, mosses and trees in the vicinity of lignite power plants from Western Macedonia, Greece - *Journal of Trace and Microprobe Techniques* **21**: 395-414.
32. O.G. DULIU (2003) How sensitive is CAT to porosity ? - *Journal of Trace and Microprobe Techniques* **21**: 609-614.
33. L.C. DINESCU, O.A. CULICOV, O.G. DULIU, M.V. FRONTASYEVA, C.D. OPREA (2003) Intercomparison between neutron activation analysis laboratories for trace elements determination in lacustrine sediments- *Journal of Trace and Microprobe Techniques* **21**: 665-676.
34. O.G. DULIU, C.T. RIZESCU, C. RICMAN (2003) Dual energy X-ray axial computer tomography investigation of some metamorphic and sedimentary rocks – *Neues Jahrbuch für Geologie und Paläontologie* **228**: 343-362.
35. O.G. DULIU, M. FERDES, O.S. FERDES (2004) ESR study of some irradiated food enzymes – *Journal of Radioanalytical and Nuclear Chemistry* **260**: 273-277.
36. L.C. DINESCU, E. STEINNES, O.G. DULIU, C. CIORTEA, T.E. SJØBAKK, D.E. DUMITRIU (2004) Distribution of some major and trace elements in Danube delta lacustrine sediments and soil – *Journal of Radioanalytical and Nuclear Chemistry* **262**: 345-354.
37. O.G. DULIU, O.A. CULICOV, I. RĂDULESCU, C. CRISTEA, T. VASIU (2005) Major, trace and natural radioactive elements in bituminous coal from Australia, Romania, Russia, South Africa and Ukraine: a comparative investigation – *Journal of Radioanalytical and Nuclear Chemistry* **264**: 225-234.
38. M. VELTER-STEFANESCU, O.G. DULIU, V. SANDU (2005) Yb<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub>:Li superconductor system investigated by direct microwave absorption method– *Journal of Optoelectronics and Advanced materials* **7**, 973- 978

39. M. VELTER-STEFANESCU, O.G. DULIU, N. PREDA (2005) On the relaxation mechanism of some radiation induced free radicals in polymers – *Journal of Optoelectronics and Advanced materials* **7**, 985-990.
40. I. TISEANU, T. CRACIUNESCU, N. B. MANDACHE, O. G. DULIU (2005)  $\mu$ -X-ray computer axial tomography application in life sciences – *Journal of Optoelectronics and Advanced materials* **7**, 1073-1078
41. M. VELTER-STEFANESCU, O.G. DULIU, V. MIHALACHE (2005) Magnetically modulated microwave absorption investigation of  $\text{Bi}_{1.7}\text{Pb}_{0.4}\text{Sr}_{1.5}\text{Ca}_{2.5}\text{Cu}_{3.6}\text{O}_x/(\text{LiF})_y$  Superconducting system – *Journal of Optoelectronics and Advanced materials*, **7**, 1557 – 1561
42. O.G. DULIU, M. VELTER-STEFANESCU (2006)  $\text{Mn}^{2+}$  EPR line shape as a criterion in provenance studies of natural calcium carbonates – *Journal of Optoelectronics and Advanced materials*, **8**, 1557 – 1561.
43. O.G. DULIU, R. GEORGESCU, SHABAN IBRAHIM ALI (2007) EPR investigation of some irradiated traditional oriental spices – *Radiation Physics and Chemistry* **76**, 1031-1036.
44. D.E. SELETSCHI, O.G. DULIU, R. GEORGESCU (2007) EPR investigation of *Rapana Thomasiana* irradiated shell – *Radiation Physics and Chemistry* **76**, 1650 – 1652.
45. CRUCERU, I, G. NICOLESCU, O.G. DULIU (2008) A dedicated torsion balance to detect neutrinos by coherent scattering on high Debye temperature monocrystals – *International Journal of Modern Physics A* **23**, 1719-1728, DOI: 10.1142/S0217751X08039530
46. M.R. NEMTEANU , I.S. KIKUCHI, T.DE J.A. PINTO, E., MAZILU, S. SETNIC, M. BUCUR, O.G. DULIU, V. MELTZER, E. PINCU (2008) Electron beam irradiation of *Matricaria chamomilla* L. for microbial decontamination, *Nuclear Instruments and Methods in Physics Research B* **266**, 2520-2523
47. R. MARGINEANU, C. SIMION, S.BERCEA, O.G. DULIU, D. GHEORGHIU, A.STOCHIOIU, M. MATEI (2008) The Slanic-Prahova (ROMANIA) underground low-background radiation laboratory - *Applied Radiation and Isotopes*, **66**, 1501-1506
48. M. IOVEA, G. OAIE, C. RICMAN, G. MATEIASI, M. NEAGU, S. SZOBOTKA, O.G. DULIU (2009) Dual energy X-ray computer axial tomography and digital radiography investigation of cores and other objects of geological interest – *Engineering Geology* **103**, 119–126
49. CARMEN CRISTACHE, KATALIN GMÉLING, OTILIA CULICOV, MARINA V.FRONTASYEVA, MAGDALENA TOMA, O.G. DULIU (2009) An ENAA and PGAA comparative study of anoxic Black Sea sediments - *Journal of Radioanalytical and Nuclear Chemistry* **279**, 7-12.
50. O.G. DULIU, C.I.CRISTACHE, O.A.CULICOV, M.V.FRONTASYEVA, S.A.SZOBOTCA, M.TOMA (2009) Epithermal neutron activation analysis investigation of Clarion-Clipperton Abyssal plane clay and polymetallic micronodules – *Applied Radiation and Isotopes* **67**, 939-943
51. O. NICULAE, V. ANDREI, G. IONITA, O.G. DULIU (2009) Preliminary safety concept for disposal of the very low level radioactive waste in Romania - *Applied Radiation and Isotopes* **67**, 935-938
52. R.M. MARGINEANU, A.M. APOSTU, O.G. DULIU, S. BERCEA, C.M. GOMOIU, C.I. CRISTACHE (2009) External dose rate in Unirea salt mine, Slanic-Prahova, Romania - *Applied Radiation and Isotopes* **67**, 759-761,
53. C.I. CRISTACHE, O.G. DULIU, O.A. CULICOV, M.V. FRONTASYEVA, C. RICMAN, M. TOMA (2009) Epithermal neutron activation, radiometric, correlation and principal component analysis applied to the distribution of major and trace elements in some igneous and metamorphic rocks from Romania - *Applied Radiation and Isotopes* **67**, 901-906
54. C. VARLAM, I. STEFANESCU, O.G. DULIU, I. FAURESCU, I. POPESCU (2009) Applying direct liquid scintillation counting to low level tritium measurement - *Applied Radiation and Isotopes* **67**, 812-816
55. O.G. DULIU, VERONICA ALEXE, JACQUES MOUTTE, STEFAN A. SZOBOTCA (2009) Major and trace elements distribution in abyssal clay, micronodules and manganese nodules from Clarion-Clipperton region (North East Pacific) – *GeoMarine Letters* **29**, 71-83.
56. CARMEN CRISTACHE, CORINA ANCA SIMION, R.M. MARGINEANU, MIHAELA MATEI, OTILIA A. CULICOV, MARINA V. FRONTASYEVA, O.G. DULIU (2009) Epithermal Neutrons Activation Analysis, Radiochemical and Radiometric Investigations of Evaporitic Deposits of Slanic-Prahova (Romania) Salt Mine – *Radiochimica Acta* **97**, 333 – 337.
57. O.G. DULIU, CARMEN CRISTACHE, GHEORGHE OAIE, OTILIA A. CULICOV, MARINA V. FRONTASYEVA, MAGDALENA TOMA (2009) ENAA Studies of pollution in anoxic Black Sea sediments – *Marine Pollution Bulletin* **58**, 827-831
58. P. BAIAS, W. HOFMANN, RENATE WINKLER-HEIL, C. COSMA, O.G. DULIU (2009) Lung dosimetry for inhaled radon progeny in smokers - *Radiation Protection Dosimetry* **138**, 111-118
59. M. IOVEA, G. MATEIASI, O.G. DULIU, M. NEAGU, M. MANGU (2009) Combined X-ray dual-energy radioscopy and Tomography analysis for explosives detection – *Materials Evaluation*, **67**, 1344-1349
60. V. BERCU, C.D. NEGUT, O.G. DULIU (2010) EPR investigation of some desiccated *Ascomycota* and *Basidiomycota* gamma-irradiated mushrooms - *Radiation Physics and Chemistry* **79**, 1275–1278

61. NELIDA FLOREA, CARMEN CRISTACHE, G. OAIE, O.G. DULIU (2011) Concordant  $^{210}\text{Pb}$  and  $^{137}\text{Cs}$  ages of Black Sea anoxic unconsolidated sediments – *Geochronometria* **38**, 101 – 106
62. V. BERCU, D. NEGUT, O.G. DULIU (2011) EPR studies of the free radical kinetics in  $\gamma$ -rays irradiated *Pleurotus ostreatus* oyster mushrooms - *Food Research International* **44**, 1008-1011
63. M. CRUCERU, G. NICOLESCU, O.G. DULIU I. CRUCERU (2011) Detection of solar neutrinos by coherent scattering in high-Debye temperature monocrystals - *International Journal of Modern Physics A*, **26**, 2773-2782, DOI: 10.1142/S0217751X11053493
64. M. IOVEA, M. NEAGU, O.G. DULIU, G. OAIE, S. SZOBOTKA. G. MATEIASI (2011) A Dedicated on-Board Dual-Energy Computer Tomograph - *Journal of Nondestructive Evaluation* **30**, 167 – 171, DOI: 10.1007/s10921-011-0104-x; WOS:000293648600007
65. N. FLOREA, O.G. DULIU (2011) 18 years of continuous observation of  $^{222}\text{Rn}$  and  $^{220}\text{Rn}$  progenies atmospheric activity – *International Journal of Environmental Radioactivity*, **103**, 14-23, DOI: 10.1016/j.jenvrad.2011.10.002; WOS:000300806000003
66. D.C. NEGUT, V. BERCU, O.G. DULIU (2012) Defects induced by gamma irradiation in historical pigments – *Journal of Cultural Heritage* **13**, 397-403, DOI: 10.1016/j.culher.2012.01.002; WOS:000311021400006
67. V. BERCU, D. NEGUT, O.G. DULIU (2012) Detection of irradiated frog (*Limnonectes macrodon*) leg bones by multifrequency EPR spectroscopy - *Food Chemistry*, **135**, 2313-2319, DOI: 10.1016/j.foodchem.2012.07.015; WOS:000309786400030
68. N. FLOREA, O.G. DULIU (2013) The Rehabilitation of the Barzava Uranium Mine Tailings: a Case Study - *Journal of Hazardous, Toxic, and Radioactive Waste* **17**, 230 – 236.
69. O.G. DULIU, S.I. LYAPUNOV, A.V. GORBUNOV, V. ALEXE, T. BRUSTUR, C. RICMAN, S. A. SZOBOTKA, M.V. FRONTASYEVA, M. IOVEA (2013) On the Heavy Elements Content of Sediments and Rocks from Two Semiclosed Ecosystems: Proglacial Lake Bâlea (Fagaras Mountains) and Crater Lake St. Ana (Harghita Mountains) - *Physics of Particles and Nuclei Letters*, **10**, 469–475
70. R. M. MARGINEANU, O.G. DULIU, ANA MARIA BLEBEA-APOSTU, CLAUDIA GOMOIU, S. BERCEA (2013) Environmental Dose Rate Distribution along the Romanian Black Sea Shore – *Journal of Radioanalytical and Nuclear Chemistry* **298**, 1191-1196, DOI: 10.1007/s10967-013-2545-4; WOS:000325624300054
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