

PERSONAL INFORMATION



Octavian G. DULIU

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Sex M | Date of birth 14/02/1957 | Nationality Romanian

WORK EXPERIENCE

Dates

01.10.1999 → present

Occupation or position held

**Professor Emeritus**/Department of Structure of matter, Earth and Atmospheric Physics and Astrophysics; University of Bucharest (01.10.1999 - present)

Ph.D. Adviser (01.10.2000 → present) 27 Ph.D. students defended successfully

**Scientific Researcher 1** /AccenPro 2000, srl (01.01.2015 - present)

**Scientific Researcher 1** /Geological Institute of Romania, (16.08.2021 - present)

**Teaching:** Dosimetry and Radioprotection, Physical Principles of X and Gamma ray imaging, Radiation ecology, Applications of Atomic and Nuclear Methods of Investigation, Magnetic Resonance

**Researching:** Radiographic and Axial Computer Tomographic investigation of rocks, sedimentary formations as well as different materials of special interest

Main activities and responsibilities

- Instrumental Neutron Activation Analysis and Radiometric Assay in geosciences and environmental science

- 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 and special materials
- Electron Paramagnetic Resonance in life sciences and geology

Dates

01.10.1996-30.09.1999

Occupation or position held

**Associate professor**/Department of Atomic and Nuclear Physics

Dates 01.10.1990 – 30.09.1996

Occupation or position held

**Lecturer/**

Dates 15.09.1980 – 30.09.1990

Occupation or position held

**Assistant Professor**/Department of Atomic and Nuclear Physics

Dates 01.10.1969 – 14.09.1980

Occupation or position held

**Physicist**/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

Ph.D. in Geology “The study of Holocene depositional cycles in the Black Sea: paleoenvironmental reconstructions”

Principal subjects 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

University of Bucharest, Department of Geology

<b>Level in international classification</b>	ISCED 7
Dates	24.09.1970 – 31.10.1973
<b>Title of qualification awarded</b>	Ph.D. in Physics “Electron paramagnetic resonance investigation of some iron group ions in monoclinic tungstates
<b>Name and type of organization</b>	Electron paramagnetic resonance, microwave technique, spectra simulation
<b>Name and type of organization</b>	Institute of Semiconductors, Ukrainian Academy of Science, UKRAINE (former USSR)
<b>Level in international classification</b>	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, 15.03-2018-17.07.2018, 22.04.2019-22.08.2019
<b>Title of qualification awarded</b>	<b>Research stage</b>
<b>Principal skills covered</b>	Skills covered: Instrumental Neutron Activation Analysis
<b>Name and type of organization</b>	Frank Neutron Physics Laboratory, Joint Institute for Nuclear Research, Dubna, Russian Federation
<b>Level in international classification</b>	ISCED 6
Dates	30/09/1996 – 15/06 /1997
<b>Title of qualification awarded</b>	<b>Courses attending</b>
<b>Principal subjects/occupational skills covered</b>	Skills covered: Dosimetry & radioprotection, NMR tomography, Medical Physics,
<b>Name and type of organization</b>	University of Patras, Patras, Greece
<b>Level in international classification</b>	ISCED 5
Dates	15/11/1982 – 15/02/1983 15/10/1983 – 30/12/1983
<b>Principal subjects covered</b>	Classic superconductivity
<b>Name and type of organization</b>	Joint Institute for Nuclear Research, Dubna, Russian Federation
<b>Level in international classification</b>	ISCED 6
Dates	01/9/1994 - 21/09/1994
<b>Title of qualification awarded</b>	<b>Autumn school of Medical Physics</b>
<b>Principal subjects/occupational skills covered</b>	Skills covered: Dosimetry & radioprotection, NMR tomography, Medical Physics,
<b>Name and type of organization</b>	International Center for Theoretical Physics, Trieste, Italy
<b>Level in international classification</b>	ISCED 5
Dates	01/10/1993 - 30/10/1994
<b>Title of qualification awarded</b>	<b>International School on Synchrotron Radiation</b>
<b>Principal subjects/occupational skills covered</b>	Skills covered: Accelerator physics, radiation interaction with matter, X-ray spectroscopy, solid state physics
<b>Name and type of organization</b>	International center for Theoretical Physics, Trieste, Italy
<b>Level in international classification</b>	ISCED 5
Dates	01/10/1964 - 26/06/1969
<b>Title of qualification awarded</b>	License in Nuclear Physics
<b>Principal subjects covered</b>	Nuclear spectroscopy, experimental methods in nuclear physics, theory of nucleus, high energy physics
<b>Name and type of organization</b>	University of Bucharest, Department of Physics405, Atomistilor str., 077125 Magurele (Ilfov), Romania
<b>Level in international classification</b>	ISCED 5
Dates	15/09/1960 - 04/07/1964
<b>Title of qualification awarded</b>	Baccalaureate
<b>Principal subjects covered</b>	Mathematics and Physics
<b>Name and type of organization</b>	“Iulia Hasdeu” National College 91, Ferdinand I Bvd, Bucharest, Romania
<b>Level in international classification</b>	ISCED 3

## PERSONAL SKILLS

**Mother tongues** Romanian, Aromanian

### Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	<b>Proficient user</b> <sub>C2</sub>	<b>Proficient user</b> <sub>C2</sub>	<b>Proficient user</b> <sub>C2</sub>	<b>Proficient user</b> <sub>C2</sub>
Russian	C2	<b>Proficient user</b> <sub>C2</sub>	<b>Proficient user</b> <sub>C2</sub>	<b>Proficient user</b> <sub>C2</sub>	<b>Proficient user</b> <sub>C2</sub>
French	C1	<b>Basic user</b> <sub>C1</sub>	<b>Basic user</b> <sub>B1</sub>	<b>Basic user</b> <sub>B1</sub>	<b>Basic user</b> <sub>B1</sub>

**Communication skills** good communication skills gained through my experience as professor, Ph.D. adviser and scientific researcher

**Organizational /managerial skills** Self-organizing and other team member coordination skills  
Good experience in team and project management (11 research projects as Director or Responsible representing the University of Bucharest)

**Job related skills** good command of quality control processes, reviewer for more scientific journals and projects

**Digital competence**

Specialized soft:	ImageJ, PAST, Statistica, Corel suite, Origin, Matlab, Inkscape, GNU Image Manipulation
General soft:	MS Office, LibreOffice, Latex
Operating systems:	Windows, Linux
Data processing:	Time Series Analysis, Multivariate Statistic Analysis

**Other skills and competences**

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

**Driving license** B

## 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 velichiny rasscepleniya linii EPR iona Cr<sup>3+</sup> v ZnWO<sub>4</sub> 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<sup>3+</sup> in ZnWO<sub>4</sub>. - *physica status solidi (b)*, **57** : K 15 - K 16
4. A.A. BUGAI, O.G. DULIU, B.K. KRULIKOVSKII, A.B. ROITSIN (1973) Proiavlenie efektov nizkoi simmetrii v paramagnitnom rezonanse Fe<sup>3+</sup> in ZnWO<sub>4</sub>. - *Fizica Tverdogo Tela* **15** : 2842 - 2843 (in Russian)
5. A.A. BUGAI, O.G. DULIU, B.K. KRULIKOVSKII, A.B. ROITSIN (1974) Efekty nizkoi simmetrii 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 <sup>137</sup>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<sub>2</sub>O<sub>3</sub> 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, WOS:000086953700059
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) Heavy metal pollution of some Danube Delta lacustrine sediments studied by neutron activation analysis- *Applied Radiation and Isotopes* **54**: 853-859 WOS:000167611400020
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 WOS:000167748800003
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) Heavy metals distribution in some lichens, mosses, and trees in the vicinity of lignite power plants from West Macedonia, Greece - *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. O.G. DULIU, R. GEORGESCU, SHABAN IBRAHIM ALI (2007) EPR investigation of some irradiated traditional oriental spices – *Radiation Physics and Chemistry* **76**, 1031-1036.
39. D.E. SELETSCHI, O.G. DULIU, R. GEORGESCU (2007) EPR investigation of *Rapana Thomasiana* irradiated shell – *Radiation Physics and Chemistry* **76**, 1650 – 1652.
40. 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, <https://doi.org/10.1142/S0217751X08039530>
41. 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
42. 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
43. 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
44. 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.
45. 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
46. 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
47. 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, [WOS:000266130000022](https://doi.org/10.1016/j.apradiso.2009.05.022)
48. 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
49. 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
50. 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. [WOS:000264182700001](https://doi.org/10.1016/j.geomar.2009.05.001)
51. 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.
52. 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
53. 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
54. 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
55. 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
56. NELIDA FLOREA, CARMEN CRISTACHE, G. OAIE, O.G. DULIU (2011) Concordant <sup>210</sup>Pb and <sup>137</sup>Cs ages of Black Sea anoxic unconsolidated sediments – *Geochronometria* **38**, 101 – 106
57. 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
58. 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, <https://doi.org/10.1142/S0217751X11053493>
59. 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, <https://doi.org/10.1007/s10921-011-0104-x>; [WOS:000293648600007](https://doi.org/10.1007/s10921-011-0104-x)
60. N. FLOREA, O.G. DULIU (2011) 18 years of continuous observation of <sup>222</sup>Rn and <sup>220</sup>Rn progenies atmospheric activity – *International Journal of Environmental Radioactivity*, **103**, 14-23, <https://doi.org/10.1016/j.jenvrad.2011.10.002>; [WOS:000300806000003](https://doi.org/10.1016/j.jenvrad.2011.10.002)
61. D.C. NEGUT, V. BERCU, O.G. DULIU (2012) Defects induced by gamma irradiation in historical pigments – *Journal of Cultural Heritage* **13**, 397-403, <https://doi.org/10.1016/j.culher.2012.01.002>; [WOS:000311021400006](https://doi.org/10.1016/j.culher.2012.01.002)

62. 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, <https://doi.org/10.1016/j.foodchem.2012.07.015>; WOS:000309786400030
63. 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.
64. 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, <https://doi.org/10.1134/S1547477113050087>
65. 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, <https://doi.org/10.1007/s10967-013-2545-4>; WOS:000325624300054
66. CARMEN VARLAM, V. PATRASCU, R. M. MARGINEANU, I. FAURESCU, IRINA VAGNER, DENISA FAURESCU, O.G. DULIU (2013) Tritium activity concentration along the Western shore of the Black Sea - *Journal of Radioanalytical and Nuclear Chemistry*, **298**, 1679-1683, DOI 10.1007/s10967-013-2588-6; WOS:000327248400027
67. O.G. DULIU, G. OAIE, F. PREOTEASA (2013) Time Series Analysis of Recent (1 ky) euxinic sediments of the Black Sea - *Neues Jahrbuch für Geologie und Paläontologie Abhandlung* **270/2**, 171-179; <https://doi.org/10.1127/0077-7749/2013/0363>, WOS:000326377000003
68. MARIA MARINESCU, ANA EMANDI, O.G. DULIU, IOANA STANCULESCU, V. BERCU, I. EMANDI (2014) FT-IR, EPR and SEM-EDAX Investigation of Some Accelerated Aged Painting Binders – *Vibrational Spectroscopy* **73**, 23-34 <https://doi.org/10.1016/j.vibspec.2014.04.006>, WOS:000340700600007
69. CARMEN VARLAM, I. FAURESCU, IRINA VAGNER, DENISA FAURESCU, O.G. DULIU (2015) Nitromethane and other quenching agents used to determine the tritium activity concentration by liquid scintillation spectroscopy - *Journal of Radioanalytical and Nuclear Chemistry* **303**, 789-795; <https://doi.org/10.1007/s10967-014-3364-y>, WOS:000347294600089
70. R.M. MARGINEANU, ANA-MARIA BLEBEA-APOSTU, AURELIA CELAREL, CLAUDIA-MARIANA GOMOIU, C. COSTEA, DELIA DUMITRAS, ADRIANA ION, O.G. DULIU (2014) Radiometric, SEM and XRD investigation of the Chituc black sands, southern Danube Delta, Romania – *Journal of Environmental Radioactivity* **38**, 72-79, <https://doi.org/10.1016/j.jenvrad.2014.08.006>; WOS:000346215100009
71. W.M. ARAFA, W. M. BADAWY, N.M. FAHMI, K.ALI, M.S. GAD, O.G. DULIU, MARINA V. FRONTASYEVA, E. STEINNES (2015) Geochemistry of sediments and surface soils from the Nile Delta and lower Nile valley studied by epithermal neutron activation analysis - *Journal of African Earth Sciences* **107**, 57–64, <https://doi.org/10.1016/j.jafrearsci.2015.04.004>. WOS:000356117100005
72. W.M. BADAWY, K. ALI , H.M. EL-SAMMAN, MARINA V. FRONTASYEVA, SVETLANA F. GUNDORINA, O.G. DULIU (2015) Instrumental Neutron Activation Analysis of Soil and Sediment Samples from Siwa Oasis, Egypt - *Physics of Particles and Nuclei Letters*, **12**, 637–644. <https://doi.org/10.1134/S154747711504007X>
73. CARMEN VARLAM, O.G. DULIU, I. FAURESCU, DENISA FAURESCU (2015) Tritium time series in precipitation of Rm. Valcea, Romania - *Isotopes In Environmental and Health Studies*, **52** (Special Issue), 363-369, <https://doi.org/10.1080/10256016.2015.1114932>; WOS:000383923800005
74. L.C. TUGULAN, O.G. DULIU, ANA-VOICA BOJAR, DELIA DUMITRAS, INGA ZINICOVSKAIA, OTILIA A. CULICOV, MARINA V. FRONTASYEVA (2016) On the geochemistry of the Late Quaternary loess deposits of Dobrogea (Romania) - *Quaternary International*, **399**, 100-110 <https://doi.org/10.1016/j.quaint.2015.06.062>. WOS:000374345800008
75. GABRIELA M. FLORESCU, O. G. DULIU (2015) Shielding activation of petawatt laser facilities in Romania: a fluka preliminary evaluation- *Radiation Protection Dosimetry*, **168**, 566-569, <https://doi.org/10.1093/rpd/ncv371>; WOS:000371608500018
76. A. CELAREL, S. BERCEA, C. CENUSE, O.G. DULIU (2016) Slanic Prahova (Romania) salt mine low background calibration facility - *Radiation Protection Dosimetry*, **168**, 427-432, <https://doi.org/10.1093/rpd/ncv350>; WOS:000371608200018
77. O.A. CULICOV, I. ZINICOVSCAIA, O.G. DULIU (2016) Active Sphagnum girgensohnii Russow Moss Biomonitoring of an Industrial Site in Romania: Temporal Variation in the Elemental Content - *Bulletin of Environmental Contamination and Toxicology* **96**, 650-656 <https://doi.org/10.1007/s00128-016-1780-0> WOS:000374397300015
78. SH. ALLAJBEU, N.S. YUSHIN, F. QARRI, O.G. DULIU, P. LAZO, M. V. FRONTASYEVA (2016) Atmospheric Deposition of Rare Earth Elements in Albania Studied by the Moss Biomonitoring Technique, Neutron Activation Analysis and Gis Technology - *Environmental Science and Pollution Research* **23**, 14087–14101 <https://doi.org/10.1007/s11356-016-6509-4>; WOS:000379553500045
79. M.G. FLORESCU, O.G. DULIU, D. PANTAZ, C. M. TICOS, D. SPOREA, R. VASILACHE, V. IONESCU, M. OANE (2016) Radiological safety assessment for the experimental area of a hyper-intense laser with peak—power of 1PW— CETAL – *Radiation Protection Dosimetry* **175**, 104-109, <https://doi.org/10.1093/rpd/ncw274> WOS: 000404476500013
80. O.G. DULIU, TATIANA I. IVANKINA, E. HERMAN, C. RICMAN, I. TISEANU (2016) Orientation distribution function of biotite platelets based on optical, thin sections and  $\mu$ -CT image analysis in an Outokumpu (Finland) biotite gneiss: Comparison with neutron diffraction texture analysis - *Russian Journal of Earth Sciences* **16**: ES3003, <https://doi.org/10.2205/2016ES000573>; WOS:000387471900005
81. INGA ZINICOVSCAIA, C. HRAMCO, O.G. DULIU, K. VERGEL, OTILIA A. CULICOV, MARINA V. FRONTASYEVA, G. DUCA (2016) Air Pollution Study in the Republic of Moldova Using Moss Biomonitoring Technique - *Bulletin of Environmental Contamination and Toxicology*, **98**, 262–269, <https://doi.org/10.1007/s00128-016-1989-y> WOS:000394130000019

82. OTILIA A. CULICOV, LYDIA IURUCOVA, O.G. DULIU, INGA ZINICOVSKAIA (2017) Elemental Content of Mosses and Lichens from Livingston Island (Antarctica) as determined by Instrumental Neutron Activation Analysis (INAA) - *Environmental Science and Pollution Research*, 24, 5717–5732, DOI 10.1007/s11356-016-8279-4; WOS:000374397300015
83. V. BERCU, C.D. NEGUT, O.G. DULIU (2017) Irradiation free radicals in freshwater crayfish *Astacus leptodactylus* Esch investigated by EPR spectroscopy – *Radiation Physics and Chemistry*, 133, 45-51, <https://doi.org/10.15016/j.radphyschem.2016.12.008> WOS:000393259000007
84. W.M. BADAWAY, E.H. GHANIM, O.G. DULIU, H. EL SAMMAN, M.V. FRONTASYEVA (2017) Major and trace element distribution in soil and sediments from the Egyptian central Nile Valley - *Journal of African Earth Sciences*, 131, 53-61, <https://doi.org/10.1016/j.jafrearsci.2017.03.029> WOS:000403515600005
85. C.D. SAMOILESCU, O.G. DULIU, M.M. MANEA, D. STAN, B. CONSTANTINESCU (2017) A comparative study of two icons representing the “Coronation of the Virgin by the Holy Trinity”: Walachia, 18th century and Transylvania, 19th century - *Journal of Cultural Heritage* 27, 175-180 <https://doi.org/10.1016/j.culher.2017.04.001> WOS:000413844400019
86. I. ZINICOVSCAIA, O.G. DULIU, O.A. CULICOV, R. STURZA, C. BILICI, S. GUNDORINA (2017) Geographical Origin Identification of Moldavian Wines by Neutron Activation Analysis - *Food Analytical Methods*, 10, 3523–3530 <https://doi.org/10.1007/s12161-017-0913-3> WOS:000412116000004
87. S.Y. ABDO, I. ZINICOVSCAIA, O.G. DULIU, M.M. SHERIF, M.V. FRONTASYEVA (2017) Epithelial neutron activation analysis of major and trace elements in Red sea scleractinian corals – *Journal of Radioanalytical and Nuclear Chemistry* 314, 1445-1452 <https://doi.org/10.1007/s10967-017-5511-8> WOS:000413983300099
88. P.S. NEKHOROSHKOV, A.V. KRAVTSOVA, A.N. KAMNEV, O. DULIU, O.M. BUNKOVA, M.V. FRONTASYEVA, I.P. Yermakov (2017) Assessment of major and trace elements in aquatic macrophytes, soils and bottom sediments collected along different water objects in the Black Sea coastal zone by using neutron activation analysis - *Modern Chemistry & Applications*, 5, 1-5, <https://doi.org/10.4172/2329-6798.1000208>
89. ANA-VOICA BOJAR, V. BARBU, A. WOJTOWICZ, H-P. BOJAR, S. HAŁAS, O.G. DULIU (2018) Miocene Slănic Tuff, Eastern Carpathians, Romania, in the Context of Badenian Salinity Crisis, *Geosciences*, 8, 73; <https://doi.org/10.3390/geosciences8020073>, WOS:000427518800040
90. I. ZINICOVSCAIA, O.A. CULICOV, O.G. DULIU, N.S. YUSHIN, S.A. GUNDORINA (2018) Major and trace elements distribution in cigarette tobacco, ash and filters – *Journal of Radioanalytical and Nuclear Chemistry* 316, 629–634 <https://doi.org/10.1007/s10967-018-5808-2>, WOS:000431040600024
91. O.G. DULIU, CARMEN VARLAM, MUATAZ DHEYAA SHNAWAW (2018) 18 years of continuous observation of tritium and atmospheric precipitations in Ramnicu Valcea (Romania): A time series analysis - *Journal of Environmental Radioactivity*, 190-191,105-110, <https://doi.org/10.1016/j.jenvrad.2018.05.011>, WOS:000435057400012
92. W.M. BADAWY, O.G. DULIU, M.V. FRONTASYEVA, H. EL SAMMAN, A. FAANHOF (2018) Environmental radioactivity of soils and sediments: Egyptian sector of the Nile valley - *Isotopes in Environmental and Health Studies*, 1-13, <https://doi.org/10.1080/10256016.2018.1482292>, WOS:000443887900008
93. LUCIA-RALUCA BARBU, DOINA-CARMEN OBREJA, O. G. DULIU (2019) The investigation of micronuclei frequency distribution for exposed and unexposed personnel to ionizing radiation – *Radiation Protection Dosimetry* <https://doi.org/10.1093/rpd/ncy155>, WOS:000489283600014
94. D.A. ABDUSHUKUROV, D. ABDUSAMADZODA, A.A. DJURAEV, O.G. DULIU, M.V. FRONTASYEVA (2018) Distribution of radioactive isotopes in the mountain and piedmont regions of Central Tajikistan Varzob river valley - *Journal of Radioanalytical and Nuclear Chemistry* 318, 1873–1879 <https://doi.org/10.1007/s10967-018-6206-5> WOS:000451746300037
95. SISTER SERAFIMA, O.G. DULIU, M.M. MANEA, S.VASILICA, C. RADULESCU, B. CONSTANTINESCU, D. STAN, O.A. CULICOV, I. ZINICOVSCAIA, (2019) Complex investigation of the five 19th century Russian-Lipovan icons - *Microchemical Journal*, <https://doi.org/10.1016/j.microc.2019.104126>, WOS:000495469400048
96. O.G. DULIU, C. CRISTACHE, A-V. BOJAR, G. OAIE, O-A. CULICOV, M.V. FRONTASYEVA, E. CONSTANTINESCU (2019) The Geochemistry of 1 ky old euxinic sediments of Western Black Sea - *Geosciences* 9, 455; <https://doi.org/10.3390/geosciences9110455>, WOS:000502289200001
97. D. ABDUSAMADZODA, D.A. ABDUSHUKUROV, O.G. DULIU, N.S. YUSHIN, M.V. FRONTASYEVA, I. ZINICOVSCAIA (2019) Investigations of the Atmospheric Deposition of Major and Trace Elements in Western Tajikistan by Using the *Hylocomium splendens* Moss as Bioindicators - *Archives of Environmental Contamination and Toxicology*, 78, 60–67, <https://doi.org/10.1007/s00244-019-00687-w>, WOS:000496201500001
98. D. ABDUSAMADZODA, D.A. ABDUSHUKUROV, I. ZINIKOVSCAIA, K.N. VERGEL (2020) Assessment of the ecological and geochemical conditions in surface sediments of the Varzob river, Tajikistan, - *Microchemical Journal*, 158, <https://doi.org/10.1016/j.microc.2020.105173>, WOS:000573289900003
99. T.I. IVANKINA, S.E. KICHANOV, O.G. DULIU, S.Y. ABDO, M.M. SHERIF (2020) The structure of scleractinian coral skeleton analyzed by neutron diffraction and neutron computed tomography, *Scientific Reports* 10, 12869, <https://doi.org/10.1038/s41598-020-69859-2>, WOS:000559797100087
100. D. ABDUSAMADZODA, D.A. ABDUSHUKUROV, O.G. DULIU, I. ZINICOVSCAIA (2020) Assessment of the toxic metals pollution of soil and sediment in Zarafshon Valley, Northwest Tajikistan, - *Toxics* 2020, 8, 113; <https://doi.org/10.3390/toxics8040113>, WOS:000601714900001
101. I. ZINIKOVSCAIA, R. STURZA, O. DULIU, D. GROZDOV, S. GUNDORINA, A. GHENDOV-MOSANU, G. DUCA (2020) Major and Trace Elements in Moldavian Orchard Soil and Fruits: Assessment of Anthropogenic Contamination - *International Journal of Environmental Research and Public Health*, 17, 7112, WOS:000586545200001
102. I. YU ZEL, M. PETRUZALEK, T. LOKAJÍČEK, T.I. IVANKINA, S.E. KICHANOV, D.P. KOZLENKO, I. POROSNICU, P. SCHNABL, P. PRUNER, O.G. DULIU (2021) Assessment of structural, magnetic, and P-wave velocity anisotropy of

- two biotite gneisses from X-ray and neutron tomography – *Tectonophysics*, 812 , 228925, <https://doi.org/10.1016/j.tecto.2021.228925>, WOS:000674655100010
103. D.A. ABDUSHUKUROV, D. ABDUSAMADZODA, O.G. DULIU, M.V. FRONTASYEVA (2021) Geochemical and Isotope Anomalies in Sioma River Gorge, Western Tajikistan – *Radiation*, 1, 145–152. <https://doi.org/10.3390/radiation1020013>
104. W.M. BADAWEY, O.G. DULIU, H. EL SAMMAN, A. EL-TAHER, M.V. FRONTASYEVA (2021) A review of major and trace elements in Nile River and Western Red Sea sediments: An approach of geochemistry, pollution, and associated hazards – *Applied Radiation and Isotopes*, 170, 109595, <https://doi.org/10.1016/j.apradiso.2021.109595>, WOS:000637950400017
105. IOANA POROSNICU, C.N.M. BUTNARU, I. TISEANU, E. STANCU, C.V.A. MUNTEANU, B.I. BITA, O.G. DULIU, F. SIMA (2021) Y<sub>2</sub>O<sub>3</sub> Nanoparticles and X-ray Radiation-Induced Effects in Melanoma Cells - *Molecules*, 26, 3403; <https://doi.org/10.3390/molecules26113403>, WOS:000660441100001
106. A. CIOCARLAN, L. LUPASCU, A. ARICU, I. DRAGALIN, V. POPESCU, E-I. GEANA, R. E. IONETE, N. VORNICU, O.G. DULIU, G. HRISTOZOVA, I. ZINICOVSCAIA (2021) Chemical composition and assessment of antimicrobial activity of lavender essential oil and some by-products- *Plants*, 10, 1829. <https://doi.org/10.3390/plants10091829>
107. D.A. ABDUSHUKUROV, D. ABDUSAMADZODA, O.G. DULIU, INGA ZINICOVSCAIA, P.S. NEKHOROSHOV (2022) On the Geochemistry of Major and Trace Elements Distribution in Sediments and Soils of Zarafshon River Valley, Western Tajikistan – *Applied Sciences* 12, 2763, <https://doi.org/10.3390/app12062763>
108. A. CIOCARLAN, I. DRAGALIN, A. ARICU, L. LUPASCU, N. CIOCARLAN, K. VERGEL, O.G. DULIU, G. HRISTOZOVA, I. ZINICOVSCAIA (2022) Chemical profile, elemental composition, and antimicrobial activity of plants of the *Teucrium* (Lamiaceae) genus growing in Moldova – *Agronomy*, 12, 772. <https://doi.org/10.3390/agronomy12040772>
109. M. ILIE, T. SAVA, A. VESPREMEANU-STROE, O.G. DULIU, G. CRISTEA, G. ION, D. OLTEANU, A. HALIUC, C. MĂNĂILESCU, G. SAVA (2022) A detailed chronology of the sedimentation in the Danube abyssal fan records the major episodes of the late-Holocene Black Sea evolution – *Quaternary Geochronology*, 70, 101279, <https://doi.org/10.1016/j.quageo.2022.101279>

#### Data Sets

- OCTAVIAN, DULIU; ZINICOVSCAIA, INGA; CULICOV, OTILIA-ANA ; FRONTASYEVA, MARINA; STURZA, RODICA; BILIC, CONSTANTIN (2017), Moldova vineyards soil, *Mendeley Data*, v1 <http://dx.doi.org/10.17632/g73xtfjyc3.1>
- DULIU, OCTAVIAN (2018), Micronuclei distribution for exposed and unexposed personnel to ionizing radiation, *Mendeley Data*, v1 <http://dx.doi.org/10.17632/h96nvpq74j.1>
- DULIU, OCTAVIAN; ABDUSAMADZODA, DALER; ABDUSHUKUROV, DJAMSHED; ZINICOVSCAIA, INGA; YUSHIN, NIKITA; FRONTASYEVA, MARINA (2019), The content of 43 elements as determined by INAA in 29 mosse samples from Eastern Tajikistan, *Mendeley Data*, v1 <http://dx.doi.org/10.17632/myvr4dvpk7.1>
- DULIU, OCTAVIAN (2019), Major and trace elements in Black Sea euxinic sediments, *Mendeley Data*, v1 <http://dx.doi.org/10.17632/d5f8c9gtv7.1>
- Wael M. BADAWEY, OCTAVIAN G. DULIU, MARINA V. FRONTASYEVA, HUSSEIN EL-SAMMAN, SERGEY V. MAMIKHINE (2020) Dataset of elemental compositions and pollution indices of soil and sediments: Nile River and delta -Egypt, *Data in brief* 28, 105009, <https://doi.org/10.1016/j.dib.2019.105009>
- ABDUSAMADZODA, DALER; ABDUSHUKUROV, DJAMSHED; DULIU, OCTAVIAN; ZINICOVSCAIA, INGA; NEKHOROSHKOV, PAVEL (2020), Major and trace elements in sediments and soils of the Zerafshon area, north - west Tajikistan, *Mendeley Data*, V2, <https://doi.org/10.17632/vj24br7gnt.2>
- VARLAM, CARMEN; DULIU, OCTAVIAN; IONETE, ROXANA-ELENA; COSTINEL, DIANA (2020), “Monthly values of delta 2H, delta 18O, d excess, temperature, relative humidity and precipitation in Râmnicu Vâlcea, Romania, between January 2012 and December 2018”, *Mendeley Data*, v1 <http://dx.doi.org/10.17632/cmfw35ckf9.1>

#### National Journals

- O.G. DULIU, M. VELTER-STEFANESCU (2006) Numerical Taxonomy: Mn<sup>2+</sup> EPR line shape as a criterion in provenance studies of natural calcium carbonates – *Journal Of Optoelectronics And Advanced Materials*, 8, 1557 – 1561.
- M. VELTER-STEFANESCU, O.G. DULIU, V. SANDU (2005) Yba<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub>:Li superconductor system investigated by direct microwave absorption method– *Journal of Optoelectronics and Advanced materials* 7, 973- 978
- 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.
- I. TISEANU, T. CRACIUNESCU, N. B. MANDACHE, O. G. DULIU (2005) □-X-ray computer axial tomography application in life sciences – *Journal of Optoelectronics and Advanced materials* 7, 1073-1078
- M. VELTER-STEFANESCU, O.G. DULIU, V. MIHALACHE (2005) Magnetically modulated microwave absorption investigation of Bi<sub>1.7</sub>Pb<sub>0.4</sub>Sr<sub>1.5</sub>Ca<sub>2.5</sub>Cu<sub>3.6</sub>O<sub>x</sub>(LiF)<sub>y</sub> Superconducting system – *Journal of Optoelectronics and Advanced materials*, 7, 1557 – 1561
- CARMEN CRISTACHE, O.G. DULIU, MAGDALENA TOMA, FELICIA DRAGOLICI, MIHAELA BRAGEA, L. DONE (2008) Determination of elemental content in geological samples - *Romanian Journal of Physics* 53, 941-946, [http://www.nipne.ro/rjp/2008\\_53\\_7-8/0941\\_0946.pdf](http://www.nipne.ro/rjp/2008_53_7-8/0941_0946.pdf)
- O.G. DULIU, NICOLETA-MARIA GRECU, CORINA CRISTACHE (2009) EPR and X-ray diffraction investigation of some Greek marbles and limestones- *Romanian Reports in Physics* 61, 487–499 [http://www.infim.ro/rrp/2009\\_61\\_3.html](http://www.infim.ro/rrp/2009_61_3.html)



8. MADALINA CRUCERU, D. BARTOS, I. CRUCERU, G. CARAGHEORGHIOPOL, O. G. DULIU, A. BARBORICA, P. CRISTEA, C. M. NICULAE, R. C. BOBULESCU (2009) A coordinate sensitive detector for particles generated in high energy reactions - *Romanian Reports in Physics* **61**, 513-521, [http://www.infim.ro/rp/2009\\_61\\_3/art16cruceru.html](http://www.infim.ro/rp/2009_61_3/art16cruceru.html)
9. P. BAIAS, W. HOFMANN, RENATE WINKLER-HEIL, O.G. DULIU (2009) Chronic smoker lung dosimetry of radon progeny- *Romanian Reports in Physics* **61**, 669–675, [http://www.rrp.infim.ro/2009\\_61\\_4/art06Baias.pdf](http://www.rrp.infim.ro/2009_61_4/art06Baias.pdf)
10. DANIELA DOGARU, ORTEZIA NICULAE, M. TERENCE, G. JINESCU, O.G. DULIU (2010) Complementary safety indicators of Saligny radioactive waste repository - *Romanian Reports in Physics* **62**, 811–820, [http://www.rrp.infim.ro/2010\\_62\\_4/art14dogaru.pdf](http://www.rrp.infim.ro/2010_62_4/art14dogaru.pdf)
11. V. SIMIONOV, O.G. DULIU (2010) Atmospheric tritium dynamics around Cernavoda nuclear power plant, - *Romanian Reports in Physics* **62**, 827–837, [http://www.rrp.infim.ro/2010\\_62\\_4/art16Simionov.pdf](http://www.rrp.infim.ro/2010_62_4/art16Simionov.pdf)
12. G. JINESCU, DANIELA. DOGARU, G. DOGARU, ORTEZIA NICULAE, O.G. DULIU (2010) The Influence of the Sludge Content on Transport Parameters of the Cemented based Radioactive Waste Form - *Revista de Chimie* **61**, 197-191, <http://www.revistadechimie.ro/pdf/JINESCU%20Gh%202%2010.pdf>
13. C. COSTEA, O.G. DULIU, A. DANIS, S. SZOBOTKA (2011) SEM investigations of CR-39 and mica-biotite solid state nuclear track detectors – *Romanian reports in Physics* **63**, 86–94, [http://www.rrp.infim.ro/2011\\_63\\_1/08-Costea-Duliu.pdf](http://www.rrp.infim.ro/2011_63_1/08-Costea-Duliu.pdf)
14. O. NICULAE, V. ANDREI, O.G. DULIU (2011) Post-closure safety concept proposed for the Saligny near surface repository - *Romanian reports in Physics* **63**, 339–347, [http://www.rrp.infim.ro/2011\\_63\\_2/art02%20Niculae.pdf](http://www.rrp.infim.ro/2011_63_2/art02%20Niculae.pdf)
15. MADALINA VASILE, G. VASILE, O.G. DULIU (2011) A preliminary study of the external dose rates distribution for patients with prostate permanent <sup>125</sup>I implants – *Romanian Reports in Physics* (in print)
16. MADALINA CRUCERU, I. CRUCERU, O.G. DULIU (2011) On the spectroscopic properties of highly doped CsI(Tl) scintillators – *Romanian Reports in Physics* **63**, 693–699, [http://www.rrp.infim.ro/2011\\_63\\_3/art07Cruceru.pdf](http://www.rrp.infim.ro/2011_63_3/art07Cruceru.pdf)
17. D. DUMITRESCU, A. CHIROSCA, O.G. DULIU (2011) – Radiation surveillance and radiation dose control at Cernavoda Nuclear Power Plant - *Polytechnical University of Bucharest. Scientific Bulletin A* **74**, 149-156, [http://www.scientificbulletin.upb.ro/rev\\_docs\\_arhiva/fullce0\\_897920.pdf](http://www.scientificbulletin.upb.ro/rev_docs_arhiva/fullce0_897920.pdf)
18. EVELINA IONESCU, DANIELA GURAU, D. STANGA, O.G. DULIU (2012) Decommissioning of the VVR-S research reactor – radiological characterization of the reactor block – *Romanian Reports in Physics* **64**, 387–398, [http://www.rrp.infim.ro/2012\\_64\\_2/art06Ionescu.pdf](http://www.rrp.infim.ro/2012_64_2/art06Ionescu.pdf) WOS:000306046000006
19. DORINA COVACI, DANA SELEȚCHI, O.G. DULIU (2012) EPR study on Mn<sup>2+</sup> homogeneity in travertine deposits from Borsec quarry – *Romanian Reports in Physics* **64**, 761–767, [https://www.rrp.infim.ro/2012\\_64\\_3/art12Covaci.pdf](https://www.rrp.infim.ro/2012_64_3/art12Covaci.pdf)
20. G. VASILE, MADALINA VASILE, O.G. DULIU (2012) In vivo dosimetry measurements for breast radiation treatments - *Romanian Reports in Physics* **64**, 728–736, [https://www.rrp.infim.ro/2012\\_64\\_3/art08Vasile.pdf](https://www.rrp.infim.ro/2012_64_3/art08Vasile.pdf)
21. EVELINA IONESCU, D. STANGA, O.G. DULIU (2013) The free release of the materials resulting from the decommissioning of the VVR-S research reactor - *Romanian Reports in Physics* **65**, 000 - 000, [https://www.rrp.infim.ro/2013\\_5\\_1/](https://www.rrp.infim.ro/2013_5_1/) (accepted)
22. G. VASILE, MADALINA VASILE, T. SALANDRE, O.G. DULIU (2013) On-line patient position check for breast irradiation treatments - *Romanian Reports in Physics* **65**, 147–154, [https://www.rrp.infim.ro/2013\\_65\\_1/](https://www.rrp.infim.ro/2013_65_1/)
23. E. A. PREOTEASA, G. SCHIANCHI, D.C. GIORI, O.G. DULIU, A. BUTTURINI, G. IZZI (2013) Unexpected detection of low- and high-spin ferrihemoglobin derivatives in blood serum of polytransfused patients with homozygous β-thalassemia under chelation therapy. An EPR study - *Digest Journal of Nanomaterials and Biostructures* **8**, 469 – 499. [http://www.chalcogen.infim.ro/469\\_Preoteasa.pdf](http://www.chalcogen.infim.ro/469_Preoteasa.pdf), WOS 000322737500001
24. V. SIMIONOV, O.G. DULIU (2013) Organic bound tritium public doses due to tritium emissions from Cernavoda nuclear power plant: a case study - *Romanian Reports in Physics* **65**, 468-477, [http://www.rrp.infim.ro/2013\\_65\\_2/](http://www.rrp.infim.ro/2013_65_2/)
25. GETA SZABO, O.G. DULIU, JANET GRADINARU (2013) WDXRF and SPARK - OES analysis of foundry iron and furnace slags - *Romanian Reports in Physics* **65**, 478-487, [http://www.rrp.infim.ro/2013\\_65\\_2/](http://www.rrp.infim.ro/2013_65_2/)
26. MADALINA VASILE, G. VASILE, O.G. DULIU (2013) Permanent <sup>125</sup>I prostate implants: important dosimetrical clinical parameters (a case study) - *Romanian Reports in Physics* **65**, 437-445, [http://www.rrp.infim.ro/2013\\_65\\_2/](http://www.rrp.infim.ro/2013_65_2/)
27. DORINA COVACI, O.G. DULIU (2013) Preliminary EPR spectra database of natural carbonate of some Romanian quarries - *Romanian Reports in Physics* **65**, 487-494, [http://www.rrp.infim.ro/2013\\_65\\_2/](http://www.rrp.infim.ro/2013_65_2/)
28. V. SIMIONOV, O.G. DULIU (2013) Potential radioactive liquid discharge program in Danube Black Sea channel by Cernavoda Nuclear Power Plant in 2009 - *Romanian Reports in Physics* **65**, 1528–1534, [http://89.37.223.172/2013\\_65\\_4/A40.pdf](http://89.37.223.172/2013_65_4/A40.pdf)
29. CLAUDIA-MARIANA GOMOIU, R.M. MARGINEANU, ANA-MARIA BLEBEA-APOSTU, B. MITRICA, A. JIPA, O.G. DULIU (2014) The vertical distribution of rock salt thermoluminescence in the Slanic Prahova (Romania) halite deposit. **59**, 1035–1042, [http://www.nipne.ro/rjp/2014\\_59\\_9-10/1035\\_1042.pdf](http://www.nipne.ro/rjp/2014_59_9-10/1035_1042.pdf); WOS: 000346326900014
30. L.C. TUGULAN, O.G. DULIU (2014) Annual dose rate determination by high resolution gamma spectrometry for TL dating of loess deposits in South-Eastern Dobrujdea, Romania - *Romanian Reports in Physics* **66**, 862-876, [http://www.rrp.infim.ro/2014\\_66\\_3/a25.pdf](http://www.rrp.infim.ro/2014_66_3/a25.pdf); WOS:000342035600025
31. L.C. TUGULAN, FELICIA M. DRAGOLICI, GIANINA CHIROSCA, A.V. CHIROSCA, O.G. DULIU (2015) Radiation exposure in underground low activity radioactive waste repository – *Romanian Journal of Physics* **60**, 598-1605, [http://www.nipne.ro/rjp/2015\\_60\\_9-10/1598\\_1605.pdf](http://www.nipne.ro/rjp/2015_60_9-10/1598_1605.pdf); WOS:000367360500033
32. R. POPA, M. SUDITU, D. ADAM, V. CIOCALTEI, O.G. DULIU, A. I. POPESCU (2015) Implementation of volumetric intensity modulated arc therapy in oropharyngeal cancer. A comparison with classical techniques of 3D conformal radiotherapy – *Romanian Reports in Physics* **67**, 966-977, [http://rrp.infim.ro/2015\\_67\\_3/A18.pdf](http://rrp.infim.ro/2015_67_3/A18.pdf); WOS:000346326900014

33. SISTER SERAFIMA, O.G. DULIU, MARIA MIHAELA MANEA, G. NICULESCU (2016) XRF and optical microscopy analysis of the painting layer of an early 19th century icon – *Romanian Reports in Physics* **68**, 191-202, [http://www.rrp.infim.ro/2016\\_68\\_1/A15.pdf](http://www.rrp.infim.ro/2016_68_1/A15.pdf); WOS:000373247900016
34. C. STIHI, E.D. CHELARESCU, O.G. DULIU, L.G. TOMA (2016) Characterization of Romanian honey using physicochemical parameters and the elemental content determined by analytical techniques – *Romanian Reports in Physics* – **68**, 362-369, [http://www.rrp.infim.ro/2016\\_68\\_1/A30.pdf](http://www.rrp.infim.ro/2016_68_1/A30.pdf); WOS:0003732479300031
35. L.C. TUGULAN, JEANET GRADINARU, O.G. DULIU (2016) An EDXRF and WDXRF intercomparison case study: major elements content of Dobrogea loess– *Romanian Journal of Physics* **61**, 1626-1634, [https://www.nipne.ro/rjp/2016\\_61\\_9-10/1626\\_1634.pdf](https://www.nipne.ro/rjp/2016_61_9-10/1626_1634.pdf); WOS:000390291700016
36. O.A. CULICOV, O.G. DULIU, I. ZINICOVSCAIA (2016) Study of elemental grouping in Moss-Bags as a function of height and location of the exposure site – *Romanian Reports in Physics*, **68**, 736–745, [http://www.rrp.infim.ro/2016\\_68\\_2/A28.pdf](http://www.rrp.infim.ro/2016_68_2/A28.pdf) ; WOS:000379197800028
37. IOANA DANIELA DULAMA, ELENA DANIELA CHELARESCU, O.G. DULIU (2016) Statistical correlation between heavy metal concentrations, determined by XRF and AAS analytical methods, in *Brassica Oleracea* samples used as bioindicator – *Romanian Reports in Physics*, **68**, 1221-1226, [http://www.rrp.infim.ro/2016\\_68\\_3/A29.pdf](http://www.rrp.infim.ro/2016_68_3/A29.pdf); WOS:000383829000029
38. E. HERMAN, O.G. DULIU, M. IOVEA (2018) Preliminary theoretical approach for materials elemental composition identification using X - Rays spectral transmission data - *Journal of Optoelectronics and Advanced Materials*, **20**, 410-418 WOS:000446873200008
39. INGA ZINICOVSCAIA, O.G. DULIU, OTILIA-ANA CULICOV, MARINA V. FRONTASYEVA, RODICA STURZA (2018) Major and trace elements distribution in Moldavian soils – *Romanian Reports in Physics* **70**, Article no. 701, WOS:000438016900014
40. SISTER SERAFIMA, O. G. DULIU, M.-M. MANEA, A.-V. BOJAR, C. COSTEA, D. BIRGAOANU, O.-C. BARBU (2019) An XRF, XRD, FTIR, FT RAMAN, Digital radiography and UV photography study of some classical pigments, primers and binders used in panel painting – *Romanian Reports in Physics* **71**, Article no. 201, <https://www.rrp.infim.ro/IP/2018/AN71201.pdf> WOS:000462587800004
41. LIVIU C. TUGULAN, OCTAVIAN G. DULIU, FELICIA N. DRAGOLICI, CALIN RICMAN (2019) The Contribution of the Natural Radionuclides to the Radiological Hazard at the National Radioactive Waste Repository Baita-Bihor, Romania – *Romanian Journal of Physics* **64**, Article no. 805, [http://www.nipne.ro/rjp/2019\\_64\\_1-2/RomJPhys.64.805.pdf](http://www.nipne.ro/rjp/2019_64_1-2/RomJPhys.64.805.pdf) WOS:000460671400014
42. LUCIA-RALUCA BARBU, DOINA-CARMEN OBREJA, OCTAVIAN G. DULIU3, AURELIA CELAREL, CONSTANTIN CENUSA (2019) The cell micronuclei response to ionizing radiation in the case of gamma and X-ray exposure – *Romanian Journal of Physics* **64**, article no. 702, [http://www.nipne.ro/rjp/2019\\_64\\_5-6/RomJPhys.64.702.pdf](http://www.nipne.ro/rjp/2019_64_5-6/RomJPhys.64.702.pdf)
43. A.A. BUGAI, O.G. DULIU, B.K. KRULIKOVSKII, A.B. ROITSIN (1974) EPR Investigation of Hyperfine Structure Spectra of Fe<sup>3+</sup> in ZnWO<sub>4</sub> and CdWO<sub>4</sub> - *Revue Roumaine de Physique* **5** : 820 – 821
44. O.G. DULIU (1976) Electron paramagnetic resonance of some iron group ions in monoclinic tungstates - *Studii și Cercetări de Fizică* **28**: 909 - 915 (in Romanian)
45. O.G. DULIU, A. E. PREOTEASA (1977) EPR Investigation of Cu(II) Complexes with Cathecolamines - *Analele Universității București (seria Fizica)* **25**: 61 – 63
46. O.G. DULIU (1977) Computer Calculation of Spin Hamiltonian Parameters: Fine Structure - *Analele Universității București (seria Fizica)* **25**: 105 – 108
47. O.G. DULIU, V. VOLJIN (1979) The EPR Investigation of Mn<sup>2+</sup> Ions in Marine sediments - *Analele Universității București (seria Fizica)* **27**: 67 – 71
48. O.G. DULIU (1988) High temperature supraconductibility - *ENERG nr.6*, edit. Tehnică, pp 250 - 257 (in Romanian)
49. O.G. DULIU, N. MIHAILESCU (1993) Some Considerations Concerning the Optimisation of Radiographic Investigation of Drilling Cores - *Trav. Muse. Hist. Nat. "G. Antipa"*, **XXXIII** : 463 – 467
50. STIRBET, O.G. DULIU (1993) ESR Study of the PVA Immobilized Chloroplasts - *Analele Universității București (seria Fizica)* **42** : 15 - 19
51. NAZARENCO, O.G. DULIU (1994) Etudes des couches photoconductrices CdS obtenue du sistem heterogen CdS:Cr2O3 par la metode de sublimation verticale, *Annalele Științifice ale Universității A. I. Cuza - Iasi, Fizica solidelor XL* : 51 – 56
52. O.G. DULIU (1994) Computer Simulation of the Electron Paramagnetic Resonance Spectra in Polycrystalline and Vitreous Samples (Part I: S = 1/2 and l >0) - *Romanian Reports in Physics* **46** : 427 – 435
53. G. VICOVEANU, O.G. DULIU (1994) Automatic Acquisition and Analyse of the Electron Paramagnetic Resonance Spectra - *Romanian Reports in Physics* **48** : 61 – 67
54. O.G. DULIU, V.V. GRECU, O. FERDES (1995) Study by electron paramagnetic resonance of irradiated foods- *Științe și Tehnologii Alimentare* **3**: 47 - 54 (in Romanian)
55. O.G. DULIU, T.BRUSTUR, S.SZOBOTKA, G. OAIE, C. RICMAN, V. ALEXE, M. IOVEA, S. HODOROGEA (2009) The interdisciplinary study of half-closed ecosystems (alpine and volcanic lakes) to establish the reference level for the anthropic factor assessment: Alpine lakes of Fagaras Mountains and Sf. Ana lake – *GeoEcoMarina* **14**, 181-185 (in Romanian)
56. O.G. DULIU, M. TUFAN (1996) Transmission Reconstructive Computer Tomography Investigation Of Cores : A Prospective Study - *Romanian Reports in Physics* **46** : 437 – 440
57. N. MIHĂILESCU, I. VANGHELIE, LUCRETIA C. DINESCU. O.G. DULIU, (1996) Radiometric investigation of <sup>137</sup>Cs vertical profile in Danube Delta: Matita Lake core - *Anuarul Institutului Geologic al României* **69** supplement no. **1**: 134 – 136

58. D. GRIGORCEA - CAPITANU, O.G. DULIU (1996) RIA Investigation of the Correlation between Eosinophiles and Eosinophil Cationic Protein in Bronchial Asthma - *Romanian Journal of Biophysics* **1- 2** : 37 – 42
59. E.A. PREOTEASA, O. G. DULIU, G. SCHIANCHI, D. C. GIORI, V. V. GRECU (1996) Computer simulation of the electron spin resonance spectra of methemalbumin molecular complex - *Romanian Journal of Biophysics* **3- 4** : 161 – 168
60. O.G. DULIU, I. URSU (1997) On The Precision of Radiometric Age Methods (I): Carbon - 14 and Related Methods, - *Romanian Reports in Physics* **49** : 687 – 694
61. O.G. DULIU, I. URSU (1997) On The Precision of Radiometric Age Methods (II): Potassium - Argon and Uranium Fission Tracks methods - *Romanian Reports in Physics* **49** : 695 – 703
62. O.G. DULIU (1998) Simple optimization criterion in Reconstructed Computer Tomography using polychromatic X-ray sources - *Romanian Journal of Physics* **43**: 215 – 212
63. D. MIRCEA, AL. CONSTANTINESCU, J. CIUREA, O.G. DULIU (1998) New treatment options in focal radiation therapy for greater local control - *Romanian Neurosurgery* **VII**: 77 – 89
64. O.G. DULIU, I. URSU (1999) On The Precision of Radiometric Age Methods (III): Rubidium - Strontium and related isochronous methods - *Romanian Reports in Physics* **51**: 137 – 146
65. I. NAZARENCO, O.G. DULIU (2000) Thin CdS polycrystalline films grown by a sublimation-condensation method on Cr<sub>2</sub>O<sub>3</sub> ceramic substrate - *Analele Universității A. I. Cuza - Iași, Fizica Stării Condensate*, **XLV-XLVI**: 209-216
66. ILEANA ANDREI, O.G. DULIU (2001) Computer simulation of complex EPR spectra by using neural networks - *Romanian Journal of Biophysics* **11**: 143-154
67. O.G. DULIU, M. IOVEA, M. NEAGU, G. OAIE, C. RICMAN (2006) Dual-energy computer tomography and digital radiography investigation of metamorphic rocks and unconsolidated sediments – *Anuarul Institutului Geologic al României* **74** special issue: 52 – 54.
68. E.D. SELETCHI, O.G. DULIU (2007) Comparative Study of ESR Spectra of Carbonates - *Romanian Journal of Physics* **72** : 744 -763 [http://www.nipne.ro/rjp/2007\\_52\\_5-6/0657\\_0669.pdf](http://www.nipne.ro/rjp/2007_52_5-6/0657_0669.pdf)
69. E.D. SELETCHI, O.G. DULIU (2007) Image Processing and Data Analysis in Computed Tomography - *Romanian Journal of Physics* **72** : 764 -774 [http://www.nipne.ro/rjp/2007\\_52\\_5-6/0667\\_0677.pdf](http://www.nipne.ro/rjp/2007_52_5-6/0667_0677.pdf)
70. DANIELA DOGARU, ORTENZIA NICULAE, G. JINESCU, O. G. DULIU (2008) Influence of the chemical properties of the geological formations on the migration parameters of the radionuclides from Saligny repository - *Scientific Study & Research* **9**: 153 – 168 <https://www.google.ro/url?>
71. I. EMANDI, O.G. DULIU, M. IOVEA, A. EMANDI (2011) X-Ray radiographic study of some panel painting icons from the beginning of the XX<sup>TH</sup> century - *International Journal of Conservation Science*, **2**, 179-183 <http://www.ijcs.uaic.ro/pub/IJCS-11-16-Emandi.pdf>

#### Proceedings of International Conferences (*in extenso*)

1. V.VOLJIN, O.G. DULIU, A. DANIS (1978) Some Considerations Concerning the Content of Trace Elements in Water and Sediments of Black Sea - *Proceedings. II<sup>nd</sup> Congress IWRA*, Mexico City, 1978, Mexico **vol I** : 245 - 252
2. I. NAZARENCO, L.N. COJOCARU, O.G. DULIU (1994) The Investigation of Non-Stoichiometric Cr<sub>2</sub>O<sub>3</sub> Raw Material for Photoconducting System A<sub>2</sub>B<sub>6</sub> : a - Cr<sub>2</sub>O<sub>3</sub> - , "International Ceramic Monograph", vol. 1, no. 1 (ed. CC. Sorell and A.J. Ruys), , pp. 521 - 526, Australasian Ceramic Society
3. A. PREOTEASA, O.G. DULIU, V. V. GRECU (1994) EPR Sudy of Complex Formation between the Copper Ion and Sympathomimetic Amines in Aqueous Solution - *Proceedings. Supplement of. Balkan Physics Letter* **vol.II (2)** : 1452 - 1456
4. I. NAZARENCO, O.G. DULIU, L.N. COJOCARU (1994) The Investigation of Nonstoichiometric Cr<sub>2</sub>O<sub>3</sub> Raw Material For Photoconducting System A<sub>2</sub>B<sub>6</sub> : Cr<sub>2</sub>O<sub>3</sub> - *Proceedings. Supplement of. Balkan Physics Letter* **vol.II (1)** : 289 - 293
5. M. CHIPARA, D. BARB, O.G. DULIU (1994) Simulation of Nitroxide-like Spin Probes Dissolved in Amorphous Polymers within the Glass Transition Range - *Proceedings. Supplement of Balkan Physics Letter* **vol.II (1)** : 155 - 157
6. I. NAZARENCO, O.G. DULIU (1996) High Reliability Photoconducting System CdS:Cr<sub>2</sub>O<sub>3</sub> Using Ceramic Technology - *Proceedings of "Electroceramics V" International Conference on Electronic Ceramics and Applications*, University of Aveiro, Portugalia, **Book 2**: 439 - 442
7. O. FERDES, R. MINEA, A. TARLEA, M. BADEA, O.G. DULIU, (1997) EPR and rheoviscometric investigation on irradiated pepper - *Proceedings. Supplement of Balkan Physics Letter* **vol.V** : 1956 - 1959
8. L.C. DINESCU, O.G. DULIU, G. CERNISOV, E. ANDRIES (1998) New data concerning the Danube Delta lake sediment pollution - *Proceedings of the Fourth International Symposium and Exhibition on Environmental Contamination in Central and Eastern Europe (Warsaw '98)*, Warsaw, Poland, **CD-ROM**: 167-173
9. L.C. DINESCU, O. G. DULIU, E. ANDRIES, R. H. DORCIOMAN, N. DINESCU, M. PASCU, C. RONCEA (1999) Radiometric dating of the Danube Delta lakes recent sediment", Proc. of the Int. *Symp. On Isotope Techniques in Water Resources Development and Management*, Viena, Austria 10-14 May 1999: 160- 161
10. L.I. TSIKRITZIS, S.S. GANATSIOS, O.G. DULIU, T.D. SAWIDIS (2002) Investigation of the fly ash trace element pollution of the soil in the vicinity of the coal fired power plants of Western Macedonia (Greece). *Proceedings of the International Conference for Promotion of Sustainable Development on Global Scale in the Context of Forthcoming Earth Summit*, University of Mining and Metallurgy- AGH, Cracow, Poland 11-13 March, 2002: 137-150.

11. M. IOVEA, G. OAIE, O.G. DULIU, M. BODALE, G. MATEIASI, M. NEAGU (2005) Single and Dual-energy X-ray Computer Tomography and Digital Radiography Study of Sedimentary Cores, Proceedings of the 7th International Conference MEDCOAST 05, Kusadasi Turcia, October, 2005, pp. 1337-1348
12. M. IOVEA, M. NEAGU, O.G. DULIU, G. OAIE, C. RICMAN, G. MATEIASI (2006) Dual-energy computer tomography and digital radiography investigation of organic and inorganic materials, Proceedings of the 9th International Conference ENCDT, Berlin, Germany, September, 2006, <http://www.ndt.net/article/ecndt2006/doc/P44.pdf>
13. O.G. DULIU, M. IOVEA, M. NEAGU, G. MATEIASI (2007) Dual-energy Computer Tomography and Digital Radiography Applications in Non-destructive Control of Materials, Proceedings of the 6th Conference of the Balkan Union of Physics, Istanbul, Turkey, August, 2006, *AIP Conference Proceedings* **899**, 437-438
14. O.G. DULIU, S.I. ALI, R. GEORGESCU (2007) EPR Investigation of Irradiated Curry Powder, Proceedings of the 6th Conference of the Balkan Union of Physics, Istanbul, Turkey, August, 2006, *AIP Conference Proceedings* **899**, 779.
15. E.D. SELEȚCHI, O.G. DULIU, R. GEORGESCU (2006) EPR Investigation on Gamma-Irradiated *Rapana Thomasiana* (Gastropoda, Muricidae) Shell, Proceedings of the 6th Conference of the Balkan Union of Physics, Istanbul, Turkey, August, 2006, *AIP Conference Proceedings* **899**, 825
16. E.D. SELEȚCHI, C. NEGRILĂ, O.G. DULIU, C.V. ȚURCAȘ (2007) XPS, AES and ESR studies on sediments in Herăstrău Lake, Bucharest, Romania, Proceedings of the 6th Conference of the Balkan Union of Physics, Istanbul, Turkey, August, 2006, *AIP Conference Proceedings* **899**, 411-412.
17. M. VELTER-STEFANESCU, O.G. DULIU (2007) On the Anomalous Microwave Power Dependency of both Non-Resonant and Cu<sup>2+</sup> Resonant Microwave Absorption in a YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub> Type Superconductor, Proceedings of the 6th Conference of the Balkan Union of Physics, Istanbul, Turkey, August, 2006, *AIP Conference Proceedings* **899**, 668
18. M. IOVEA, M. NEAGU, O.G. DULIU, G. OAIE, GABRIELA MATEIASI (2007) A Dedicated Dual Energy X-ray Tomography/Radiography Equipment on-board of R/V Mare Nigrum, Proceedings of the International Symposium on Digital industrial Radiology and Computed Tomography - DIR 2007, June 25-27, 2007, Lyon, France, <http://www.ndt.net/article/dir2007/papers/5.pdf>
19. M. IOVEA, M. NEAGU, O.G. DULIU, GABRIELA MATEIASI (2007) High Accuracy X-Ray Dual-Energy Experiments and Non-Rotational Tomography Algorithm for Explosives Detection Technique in Luggage Control, Proceedings of the International Symposium on Digital industrial Radiology and Computed Tomography - DIR 2007, June 25-27, 2007, Lyon, France, <http://www.ndt.net/article/dir2007/papers/16.pdf>
20. O.G. DULIU, C.I. CRISTACHE, G. OAIE, C. RICMAN, O.A. CULICOV, M.V. FRONTASYEVA (2009) Epithermal Neutron Activation Analysis of Some Geological Samples of Different Origin - Proceedings of the 7th Conference of the Balkan Union of Physics, Alexandupolis, Greece, September, 2009, *AIP Conference Proceedings* **1203**, 489-494
21. W. BADAWEY, O. G. DULIU, M.V. FRONTASYEVA, H. EL-SAMMAN (2019) Distribution of Major and Trace Elements in Soil and Sediments Along the Nile River and Delta—(Egypt): A Case Study – Proceedings of the 1st Conference of the Arab Journal of Earth Science (CAJG-1), Hammamaet, Tunisia, November, 2018 – *Petrogenesis and Exploration of Earth Interior, Advances in Science, Technology & Innovation, IEREK Interdisciplinary Series for Sustainable Development*, Springer, pp. 93-96, [https://doi.org/10.1007/978-3-030-01575-6\\_22](https://doi.org/10.1007/978-3-030-01575-6_22)
22. W. BADAWEY, Y. SARHAN, O. DULIU, M. FRONTASYEVA, H. EL-SAMMAN, A.A. HUSSEIN, W. ARAFA (2022) Heavy and Trace Elements Distribution in Plants and Soils of Urban and Rural Areas of Egypt: A Comparison. – Proceedings of the 2nd Conference of the Arab Journal of Earth Science (CAJG-2), Susse, Tunisia, November, 2019 - *New Prospects in Environmental Geosciences and Hydrogeosciences. Advances in Science, Technology & Innovation, IEREK Interdisciplinary Series for Sustainable Development*. Springer, pp. [https://doi.org/10.1007/978-3-030-72543-3\\_42](https://doi.org/10.1007/978-3-030-72543-3_42)

## C. PATENTS

- I. NAZARENCO, O.G. DULIU, I. ALDICA Method of preparation of nonstoichiometric chromium oxide. (Romanian Patent no. **111071**)
- I. NAZARENCO, O.G. DULIU, Method of evaluation of nonstoichiometry ratio of chromium oxide. (Romanian Patent no. **111722**)
- I. NAZARENCO, O.G. DULIU (2004) A method to evaluate sizes as well as positions of crystallites in CdTe thin polycrystalline films (Romanian Patent no. **119 097**)

## D. BOOKS

1. O.G. DULIU (1993) Applications of nuclear radiation, ISBN - 973 - 9160 - 14-x, University of Bucharest Press, **Bucharest**, (in Romanian)
2. T. ANGELESCU, M. BERCU, A.CONSTANTINESCU, O.G. DULIU, A.C. ION, R. ION - MIHAI, A. JIPA, A. MESTER, C. NISTOR, O. SIMA, A. TUDORA, V.V. GRECU (1995) Problems on nuclear physics (editors: Reveica Ion - Mihai, O.G. Dului, M. Penescu), ISBN - 973 - 9156 - 70 - 6 ALL Press, **Bucharest**, (in Romanian)
3. ELENA BORCA, O.G. DULIU (1997) Applications of nuclear radiation - Practical examples. ISBN 973 - 31 - 1103 - 1, Editura Tehnică, **Bucharest**, (in Romanian)
4. A. BELEA, A. DAFINEI, O. DULIU, C.A. STANESCU (2000) Fizica - Textbook for the 10th class. ISBN - 973 - 684 - 303 - 3 ALL Press, **Bucharest**, (in Romanian)
5. T. ANGELESCU, O.G. DULIU, L. HARANGUȘ, M. ONCESCU, M. POPA (2002) 144 solved problems of dosimetry and radioprotection (editor O.G. Dului). ISBN - 973 - 575 - 687 - 0, University of Bucharest Press, **Bucharest** (in Romanian)

6. T. ANGELESCU, O.G. DULIU, L. HARANGUȘ, M. ONCESCU, M. POPA (2005) 177 solved problems of dosimetry and radioprotection (editor O.G. Dului). ISBN 973-737-071-6, University of Bucharest Press, **Bucharest** (in Romanian).
7. O.G. DULIU (2007) Structure of the matter, Rural Education Press, ISBN – 978-0-0-045981 **Bucharest** (in Romanian).
8. N. ANASTASIU, O.G. DULIU (editors) (2009) Mineralogy and Geodiversity, ISBN 978-973-27-1867-4, Romanian Academy Press, University of Bucharest Press, **Bucharest**
9. O.G. DULIU (2010) Dosimetry and radioprotection, ISBN 978-973-737-816-3, University of Bucharest Press, Bucharest (in Romanian)
10. O.G. DULIU, V. BERCU (2017) ESR Investigation of the Free Radicals in Irradiated Foods in Electron Spin Resonance in Food Science (ed. A.K. Shukla), Elsevier, ISBN: 978-012-805-428-4
11. O.G. DULIU, V. BERCU, C.D. NEGUT (2019) Mn<sup>2+</sup> EPR spectroscopy for the provenance study of natural carbonates in Electron Magnetic Resonance - Applications in Physical Sciences and Biology (ed. A.K. Shukla), Elsevier, ISBN: - 978-0-12-814024-6, [WOS:000489896500002](https://doi.org/10.1016/j.wos.2019.05.002)
12. C. VARLAM, O.G. DULIU, R.E. IONETE, D. COSTINRL (2020) Time series analysis of the  $\delta^2\text{H}$ ,  $\delta^{18}\text{O}$  and  $d_{\text{excess}}$  values in correlation with monthly temperature, relative humidity and precipitation in Râmnicu Vâlcea, Romania: 2012 to 2018, in Stable Isotope Studies of the Water Cycle and Terrestrial Environments, (ed. A-V. Bojar) Geological Society of London Special Publication no. 507, <https://doi.org/10.1144/SP507-2020-56>
13. A-V. BOJAR, C. LECUYER, O.G. DULIU, H.P. BOJAR, F. FOUREL (2020) Isotopic and time series investigations of recent stalagmites (1945-2018), Schlossberg Tunnels, Graz, Austria: implications for climate change in Central Europe in Stable Isotope Studies of the Water Cycle and Terrestrial Environments, (ed. A-V. Bojar ed.) Geological Society of London Special Publication, no. 507, <https://doi.org/10.1144/SP507-2019-154>
14. L. TUGULAN, M. SECU, V. BERCU, M. COTRUBINIS, O.G. DULIU (2020) Concordant ESR and TL depositional age of Romanian Plane loess, in: Spectroscopic Techniques for Archaeological and Cultural Heritage Research (ed. A. K. Shukla) Chapter 5, IOP Publishing, <https://doi.org/10.1088/978-0-7503-2616-2ch5>

## E. PRIZES

- M.V. FRONTASYEVA, S.S. PAVLOV, O.A. CULICOV, O.G. DULIU, C. CRISTACHE, M. TOMA (2009) Encouraging Prize of the Joint Institute for Nuclear research, Dubna, Russian Federation for “Neutron activation analysis for geological studies in Romania”
- M. IOVEA, M. NEAGU, O.G. DULIU, G. OAIE, S. SZOBOTKA. G. MATEIASI (2013) Gheorghe Munteanu-Murgoci Prize of the Romanian Academy
- I. ZINICOVSCAIA, O.G. DULIU, O.A. CULICOV, R. STURZA, C. BILICI, S. GUNDORINA (2017) 2<sup>nd</sup> Prize of the Joint Institute for Nuclear Research, Dubna, Russian Federation for “Geographical Origin Identification of Moldavian Wines by Neutron Activation Analysis”