Curriculum Vitae

Informaţii personale

Nume/Prenume	**BUCUR Maria-Crina**
Telefon	[redacted]
E-mail	crina.bucur@nuclear.ro
Naţionalitate	Română
Data naştere	[redacted]

Experienţa profesională

Perioada	2024 - prezent
Funcţia sau postul ocupat	Director Stiintific
Activităţi şi responsabilităţi	Coordonator al activitatii de Cercetare-Dezvoltare din RATEN ICN

***Alte responsabilităţi*:**

Responsabil Program CDI RATEN nr. 5 „Gestionarea deşeurilor radioactive şi a combustibilului nuclear ars în condiţii de securitate nucleară”

Coordonarea contribuţiei ICN în EURAD-2 „European Partnership on Radioactive Waste Management” (2024-2029), în care RATEN ICN este partener în 5 proiecte tehnice şi coordonează unul (SUDOKU) din cele 16 proiecte tehnice aprobate pentru finanţare de către Comisia Europeană începând cu 01.10.2024 în cadrul EURAD-2.

Responsabil proiect SUDOKU „Near-Surface Disposal Optimization based on Knowledge and Understanding” al EURAD-2 (2024-2029)

Coordonarea activităţilor privind evaluarea cerinţelor specifice pentru managementul deşeurilor radioactive şi a combustibilului nuclear uzat generat din operarea SMR-urilor tip LWR şi LFR, în calitate de responsabil RATEN ICN pentru CRP IAEA nr. 26873: *Challenges and Gaps for Managing Spent Fuel from Small Modular Reactors Based on LWR and LFR Proposed to be Implemented in Romania* (2024-2027);

Coordonarea contribuţiei ICN privind armonizarea modului de abordare la nivelul EU a deşeurilor radioactive problematice şi a deşeurilor periculoase contaminate radioactive, în calitate de responsabil din partea RATEN, al proiectului European HARPERS “*HARmonisedPracticEs, Regulations and Standards in waste management and decommissioning*” (2022-2025), proiect finanţat de Comisia Europeană în cadrul programului Horizon 2020, Grant Agreement nr. 101060028. Coordonarea activităţii de dezvoltare a unui program de pregătire în cadrul proiectului HARPERS, în calitate de Task leader pentru T7.4, dedicat educaţiei şi pregătirii;

Responsabil contract ANDR privind „Servicii de asistenţă tehnică de specialitate pentru evaluarea documentaţiilor rezultate din contractul de servicii privind elaborarea unui Plan de Acţiuni pentru implementarea unui Depozit Geologic de Adâncime în România, în scopul recepţionării acestora” (2024-2025).

Responsabil cu securitatea radiologica Ill din STDR şi responsabil cu gestiunea surselor de radiaţii (permis exercitare nivel II, SO-DR).

Numele şi adresa angajatorului	Institutul de Cercetări Nucleare Piteşti, Mioveni Str. Câmpului nr. 1
Domeniu de activitate	Cercetare în domeniul gestionării deşeurilor radioactive şi a combustibilului nuclear uzat
Perioada	1997 - 2024
Funcţia sau postul ocupat	Cercetător Ştiinţific gradul III /CS II (din 2023) Responsabil Program CDI RATEN nr. 5 „Gestionarea deşeurilor radioactive şi a combustibilului nuclear ars în condiţii de securitate nucleară" (din 2012)
Activităţi şi responsabilităţi	Coordonarea activităţilor din ICN pentru Programul de Cercetare Dezvoltare în domeniul gestionării deşeurilor radioactive şi a combustibilului nuclear uzat; Elaborarea Programului anual de cercetare-dezvoltare nr. 5 şi a Programului strategic de cercetare-dezvoltare (la fiecare 5 ani) în domeniul gestionării deşeurilor radioactive şi a combustibilului nuclear uzat; Coordonarea activităţilor RATEN ICN în cadrul proiectului HIP: Horonobe International Project (2023-2026), proiect derulat sub egida NEA-OECD; Coordonarea contribuţiei ICN privind armonizarea modului de abordare la nivelul EU a deşeurilor radioactive problematice şi a deşeurilor periculoase contaminate radioactive, în calitate de responsabil din partea RATEN, al proiectului European HARPERS "*HARmonisedPracticEs, Regulations and Standards in waste management and decommissioning*" (2022-2025), proiect finanţat de Comisia Europeană în cadrul programului Horizon 2020, Grant Agreement nr. 101060028. Coordonarea activităţii de dezvoltare a unui program de pregătire în cadrul proiectului HARPERS, în calitate de Task leader pentru T7.4, dedicat educaţiei şi pregătirii; Coordonarea activităţilor ICN privind dezvoltarea şi testarea matricilor de geopolimer şi a matricilor pe bază de fosfat de magneziu pentru condiţionarea deşeurilor problematice (deşeuri organice şi respectiv metale reactive), în calitate de responsabil din partea RATEN al proiectului European PREDIS "*PRE-DISposal management of radioactive waste*" (2020-2024), proiect finanţat de Comisia Europeană în cadrul programului Horizon 2020, Grant Agreement no. 945098. Coordonarea activităţilor din cadrul task-urilor T 5.3 "*Study of direct conditioning process for liquid organic waste in geopolymers*" şi T 4.6 "*Steel corrosion in contact with magnesium phosphate cements*", în calitate de Task leader; Responsabil, din partea RATEN, al programului comun de cercetare în domeniul managementului deşeurilor radioactive EURAD "*European Joint Programme on radioactive waste management*" (2019-2024), program finanţat de Comisia Europeană în cadrul programului Horizon 2020, Grant Agreement nr. 847593, cu implicare directă în trei proiectele în derulare în cadrul acestui program: "*Cement-Organics-Radionuclides-Interactions (CORI)*", "*Fundamental understanding of radionuclide retention (FUTuRE)*", *"Waste management routes in Europe from cradle to grave (ROUTS)*"; Responsabil cu evaluarea cerinţelor şi metodologiilor pentru caracterizarea deşeurilor radioactive condiţionate în ţările membre ale Comisie Europene, în calitate de coordonator al WP2 al proiectului European CHANCE *"Characterization of conditioned nuclear waste for its safe disposal in Europe" (*2017-2021*)*, finanţat de Comisia Europeană în cadrul programului Horizon 2020, 9 (Task leader T2.1. *"End-Users Requirements & Methodology for conditioned waste characterization"*); Dezvoltarea şi coordonarea programului experimental destinat studiului efectului degradării materialelor pe bază de ciment asupra sorbţiei C-14 şi Ra-226, în calitate de responsabil din partea RATEN a proiectului european CEBAMA "*Cement-based materials, properties, evolution, barrier functions*"

	(2015-2019), finanţat de Comisia Europeană în cadrul programului Horizon 2020, Grant Agreement nr. 662147; Dezvoltarea şi coordonarea studiilor experimentale privind investigarea eliberării C-14 din tecile de Zy-4 iradiate (combustibilul CANDU ars), răşini ionice uzate (generate în sistemele de purificare de la CNE Cernavodă) şi grafit iradiat, în condiţii relevante depozitării geologice, studii derulate în cadrul proiectului european CAST "*Carbon-14 Source Term*" (2013-2017), finanţat de Comisia Europeană în cadrul programului FP 7, Grant Agreement nr. 604779; Dezvoltarea şi realiarea studiilor experimentale privind migrarea gazului prin bentonită compactată, derulate în cadrul proiectului european FORGE "*Fate of Repository Gases*" (2009-2013), finanţat de Comisia Europeană în cadrul programului FP 7, Grant Agreement nr. 230357; Coordonarea activităţilor experimentale derulate în ICN privind caracterizarea grafitului iradiat din coloana termică a reactorului TRIGA, derulate în cadrul proiectului european CARBOWASTE "*Treatment and Disposal of Irradiated Graphite and Other Carbonaceous Waste*" (2009-2012), finanţat de Comisia Europeană în cadrul programului FP 7, Grant Agreement nr. FP7-211333; Coordonarea activitătilor privind evaluarea influenţei pH-ului alcalin asupra mobilităţii radionuclizilor prin stratul de loess al amplasamentului Saligny, în calitate de Director de proiect pentru NSRAWD 2 "*Simulări numerice pentru depozitarea deşeurilor radioactive 2*", Competiţie IFA CEA (2014–2016), contract nr. C4-06/30.06.2014; Responsabil cu securitatea radiologica Ill din STDR şi responsabil cu gestiunea surselor de radiaţii (permis exercitare nivel II, SO-DR). Elaborarea rapoartelor anuale către CNCAN şi ANDR privind inventarul de deşeuri radioactive generat/preluat şi procesat de ICN Piteşti, în calitate de responsabil responsabil responsabil cu gestiunea surselor de radiaţii. Contribuţiila la elaborarea Strategiei naţionale pe termen mediu şi lung privind gestionarea în siguranţă a combustibilului nuclear uzat şi a deşeurilor radioactive; Contribuţii la raportările privind implementarea în România a prevederilor Directivei 2011/70/Euratom de instituire a unui cadru comunitar pentru gestionarea responsabilă şi în condiţii de siguranţă a combustibilului nuclear uzat şi a deşeurilor radioactive; Studii experimentale şi de modelare privind transportul radionuclizilor prin barierele inginereşti şi naturale ale depozitului de suprafaţă pentru deşeuri slab şi mediu active (DFDSMA); Modelări ale curgerii apei şi transportului radionuclizilor prin zona nesaturată şi saturată a amplasamentului Saligny, utilizând coduri de calcul dedicate: Hydrus, Modflow, FEHM şi Aliances. Aceste activităţi de modelare au fost realizate în cadrul colaborărilor ICN Piteşti cu LANL-USA, SCK.CEN - Belgia şi CEA-France; Co-autor al capitolului dedicat Caracterizării amplasamentului Saligny din Raportului preliminar de securitate pentru DFDSMA Saligny.
Numele şi adresa angajatorului	Institutul de Cercetări Nucleare Piteşti, Mioveni Str. Câmpului nr. 1
Domeniu de activitate	Cercetare în domeniul gestionării deşeurilor radioactive şi a combustibilului nuclear uzat
Educaţie şi formare	
Perioada	Octombrie 2004 - Noiembrie 2010
Titlul obţinut	doctor în fizică
Principalele subiecte/domenii	Fizică nucleară, managementul deşeurilor radioactive, transportul radionuclizilor

studiate	prin medii geologice
Numele organizaţiei de învăţământ	Universitatea Bucureşti, Facultatea de Fizică
Perioada	Octombrie 1989 - Iunie 1994
Titlul obţinut	licenţiat în fizică
Principalele subiecte/domenii studiate	Biofizică, fizică nucleară, moleculară, statistică, fizica mediului
Numele organizaţiei de învăţământ	Universitatea Bucureşti, Facultatea de Fizică

Aptitudini şi competenţe personale

Limba maternă	Română
Limbi străine	

Auto-evaluare	Înţelegere				Vorbire				Scriere	
	Ascultare		Citire		Participare la conversaţii		Discurs oral		Exprimare scrisă	
Engleză	C1	experimentat	C1	experimentat	C1	experimentat	C1	experimentat	C1	experimentat

Competenţe şi abilităţi sociale şi organizatorice	Abilitatea de a lucra individual, dar şi ca membru al unei echipe, abilităţi bune de comunicare; abilităţi de adaptare la medii multiculturale; abilitatea de a căuta şi găsi soluţii creative Experienţă de lucru în echipă; experienţă management proiecte de cercetare;
Competenţe şi abilităţi tehnice	Gândire analitică; cunoştinţe în domeniul metodelor, tehnologiilor, tehnicilor şi principiilor utilizate în managementul deşeurilor radioactive, în concordanţă cu legislaţia naţională şi europeană şi a recomandărilor IAEA. Cunoştinţe în dezvoltarea, validarea şi implementarea tehnicilor analitice utilizate în caracterizarea deşeurilor radioactive: XRF, Spectrometrie gama, ICP-OES, ICP-MS.
Competenţe şi aptitudini de utilizare a calculatorului	Cunoştinţe avansate de operare calculator şi programe de calcul: Word; Excel; Power Point; baze de date; coduri de calcul utilizate în domeniul depozitării deşeurilor radioactive: Hydrus, Modflow, RESRAD, FEHM
Anexe	Anexa 1: Stagii de pregătire Anexa 2: Lista lucrărilor publicate Anexa 3: Lista rapoarte elaborate în cadrul proiectelor europene

Februarie 2025

Anexa 1: Stagii de pregătire în domeniu

Țara	Perioada
Ungaria	16-18 ianuarie 2024: Training Course on application of requirements management systems
Online	22 - 23 februarie 2022: Status and Trends in Spent Fuel and Radioactive Waste Management
Online	04-08 aprilie 2022: Status and Use of Geopolymers to Immobilize Radioactive Waste- (EVT2102934)
Online	14-17 iunie 2022: Opportunities and Challenges in the Back End of the Fuel Cycle for Evolutionary Accident Tolerant Fuels
Armenia	12-16 septembrie 2022: Establishment of Low and Intermediate Level Waste (LILW) Characterization Methodologies and Infrastructures, Yerevan
Online	11-15 octombrie 2021: Management of Hazardous Waste Arising from the Operation and Decommissioning of Research Reactors and Other Nuclear Installations (International Predisposal Network – IPN).
Austria	20-24 May, 2019: Development of the Safety Case and Safety Assessment of Geological Disposal Facilities and Activities for the Safe Management of Radioactive Waste, Vienna
Federația Rusă	01 - 05 iulie 2019: Selection of Adequate Technologies to Address Specific Waste Streams Including problematic and Legacy Waste, Moscova.
Austria	19 - 23 noiembrie 2018: Approaches, Technologies and Criteria for Radioactive Waste Disposal Facilities, Vienna.
Elveția	15-19 octombrie 2012: Training course on Monitoring in Argillaceous and Crystalline Rocks in the Context of Repository Development, St. Ursanne and Meiringen, Switzerland,
Romania	26-30 aprile 2007: SCK.CEN Training course in "Uncertainty and sensitivity analysis in LIL disposal safety asessment", Pitesti
Belgia	martie 2005: Curs international „Caracterizarea hidrogeologica si modelarea acviferelor utilizand codul Processing Modflow", SCK.CEN, Mol
SUA	mai 2004: Curs privind transportul facilitat al contaminatilor in geosfera, Los Alamos National Laboratory
Italia	martie 2004: Curs cu tematica: Date nucleare, fizica reactorilor nucleari, Abdus Salam International Centre for Theoretical Physics, Trieste
Italia	martie 2003: Curs pe fizica solului, Abdus Salam International Centre for Theoretical Physics, Trieste
SUA	martie 2002:Determinarea experimentala, in laboratoarele din Los Alamos, a coeficientilor de distributie si difuzie ai radionuclizilor Cs-137, I-129 si H-3
Franta	iunie 2001: International Seminar on Nuclear Waste Management, Saclay
SUA	octombrie 2000 : Curs de consultanta si training in domeniul managementului deşeurilor slab si mediu active si modelarea transportului radionuclizilor, curs desfasurat sub auspiciile Departamentului de Energie US la Los Alamos National Laboratory

Anexa 2. Lista lucrărilor publicate

1. C. E. Diaconescu, M. Dianu, C. Bucur, I. C. Florea, V. Neculae, Studies to Establish the Scaling Factor Methodology for Liquid Radioactive Waste Generated by TRIGA Reactor. Journal of Science and Arts Volume 24, Issue 1, martie 2025.
2. I. C. Florea, C. M. Bucur, C. E. Diaconescu, E. A. Florea, C. E. Ichim, Analysis of the hydration process of CEM II/B-M composite cement. Journal of Science and Arts, Vol. 24, Issue 3, august 2024.
3. C. Ichim, C. Bucur, M. Olteanu, Ni-63 uptake on CEM I hardened cement paste-preliminary experimental results. INE Scientific Working Documents, August 2024.
4. C. Bucur, C. Ichim, M. Dianu, C. Diaconescu, A. Stafie, V. Toboșaru. Measurement of C-14 in Spent Molecular Sieve and Metallic Waste. NUCLEAR conference, mai 2024.
5. C. Diaconesc, M. Dianu, C. Bucur, I. Florea, V. Neculae. Studies to establish the scaling factor methodology for liquid radioactive waste generated by TRIGA reactor. Journal of Science and Arts, Vol. 24, Issue 1, pp. 185-198, 2024 (WOS)
6. C. Bucur, C. Ichim, I. Florea, C. Diaconescu. Cementitious Materials Characterisation by Inductively Coupled Plasma Emission Spectroscopy, Journal of Nuclear Research and Development, No. 26, December 2023, pp 48-54 (*Index Copernicus*)
7. C. Bucur, M. Dianu, M. Olteanu, C. Dulama, A. Toma. Overview of the methods used in RATEN ICN for radioactive waste characterisation, Nuovo Cimento della Societa Italiana di Fisica C 46 (2), 2023, https://doi.org/10.1393/ncc/i2023-23048-3 (*WOS*)
8. C. M. Manolescu, C. Bucur, I. Florea, S. Laliu. Geopolymer-Based Matrices for Conditioning Radioactive Waste, Journal of Nuclear Research and Development, No. 26, December 2023, pp 24-28 (*Index Copernicus*)
9. C. Ichim, C. Bucur, M. Olteanu, I. Florea. Effect of Organics and Cement Degradation on 63Ni Solubility in Cement Pore Waters, Journal of Nuclear Research and Development, No. 25, May 2023, pp. 11-15 (*Index Copernicus*).
10. M. Fournier, K. Hamadache, D. Lambertin, C. Bucur, F. Pancotti, M. Guerra, M. Briffaut, J. Provis, R. Lo Frano, S. Wickham. Innovations in liquid organic waste treatment and conditioning within the PREDIS European collaboration project. In proceedings of Waste Management Symposia 2023, WM2023, February 26-March 2, 2023, Phoenix, Arizona.
11. F. Pancotti, M. Guerra, M. Fournier, K. Hamadache, A. Hasnaoui, C. Bucur, E. Marquez, E. Lara, M. Hayes, J. Provis, Y. Svitlychnyi, S. Sayenko, D. Cori, E. Mossini, A. Santi, Q. T. Phung, T. N. Nguyen. Investigation, development and assessment of innovative direct conditioning solutions for radioactive liquid organic waste within the PREDIS project. In poroc. of the International Conference on Environmental Remediation and Radioactive Waste Management, ICEM2023, October 3-6, 2023, Stuttgart, Germany.
12. I. Florea, C. Diaconescu, C. Bucur, A. B. Stănilă. Modelling of Cement Hydration using PHREEQC Code, Journal of Nuclear Research and Development, No. 24, December 2022, pp 33-37 (*Index Copernicus*).
13. C. Diaconescu, I. Florea, C. Bucur, A. B. Stănilă. Assessment of Gamma Dose Rate for Waste Pachages with Radioactive Concentrate using MICROSHIELD Software, Journal of Nuclear Research and Development, No. 24, December 2022, pp 38-42 (*Index Copernicus*).
14. K. Hamadache, D. Lambertin, M. Fournier, C. Bucur, F. Pancotti, M. Guerra, C. Davy, R. Lo Frano, J. Provis, S. Wickham, Innovations in liquid organic waste treatment and conditioning within the PRE-DISposal management of radioactive waste (PREDIS) European collaboration project. In poroc. of FISA EURADWASTE'22 conference, 30 May –3 June 2022, Lyon, France.
15. F. Pancotti, M. Guerra, R. Sciacqua, C. Bucur, C. Manolescu, E. Lara Robustillo, M. Rodriguez Alcala, G. Piña Lucas, V. Shkuropatenko, Y. Svitlychnyi, S. Sayenko, M. Hayes, D. Cori, A. Fausti, E. Mossini, A. Santi, I. Moschetti, G. Magugliani, E. Macerata, M. Mariani, Q. T. Phung, T. N. Nguyen, L. Frederickx, J. Provis, D. Lambertin, M. Fournier, Development of Formulations for Direct Conditioning of Radioactive Liquid Organic Wastes – PREDIS WP5, in poroc. of FISA EURADWASTE'22 conference, 30 May –3 June 2022, Lyon, France.
16. D. Ricard, C. Bruggeman, G. Genoud, C. Mathonat, J. Velthuis,C. Carasco, O. Gueton, B. Perot, C. Bucur, A. Rizzo, L. Thompson, G. Zakrzewska-Koltuniewicz, D. Kikola, B. Ferrucci, H2020 CHANCE project "Characterization of Conditioned Nuclear Waste for its Safe Disposal in Europe", in poroc. of FISA EURADWASTE'22 conference, 30 May –3 June 2022, Lyon, France.
17. Bosbach, D., Bucur, C., and Bruggeman, C.: The European Joint Programme on Radioactive Waste Management EURAD: update of its strategic research agenda, Saf. Nucl. Waste Disposal, 1, 235–236, (Copernicus Publications) https://doi.org/10.5194/sand-1-235-2021, 2021 (*EBSCO, ProQuest*).

18. D. Petrescu, D. Diniasi, A. Tudose, C. Bucur. Experimental Study of Antimony Adsorption on Magnetite in Aqueous Solutions, Journal of Nuclear Research and Development, No. 20-21, May 2021, pp 56-60 (*Index Copernicus*).
19. B.Grambow, M.López-García, J.Olmeda, M.Grivé, N.C.M.Marty, S.Grangeon, F.Claret, S.Lange, G.Deissmann, M.Klinkenberg, D.Bosbach, C.Bucur, I.Florea, R.Dobrin, M.Isaacs, D.Read, …S.Ribet. Retention and diffusion of radioactive and toxic species on cementitious systems: Main outcome of the CEBAMA project. Applied Geochemistry 112(4):104480, 2019. DOI: https://doi.org/10.1016/j.apgeochem.2019.104480 (*WOS*)
20. S Necib, C Bucur, S Caes, F Cochin, B Z Cvetković, M Fulger, J M Gras, M Herm, L Kasprzak, S Legand, V Metz, S Perrin, T Sakuragi, T Suzuki-Muresan. Overview of ^{14}C release from irradiated zircaloys in geological disposal conditions. Radiocarbon Journal, Vol. 60, Issue 6, December 2018, pp. 1757-1771. https://doi.org/10.1017/RDC.2018.137 (*WOS*)
21. C Bucur, M Fulger, I Florea, A Tudose. ^{14}C content in CANDU spent fuel claddings and its release under alkaline conditions. Radiocarbon Journal, Vol. 60, Issue 6, December 2018, pp. 1773-1786. https://doi.org/10.1017/RDC.2018.132 (*WOS*)
22. C Bucur, I Florea, P E Reiller, D Dumitrescu. ^{14}C content in CANDU spent ion exchange resins and its release under alkaline conditions. Radiocarbon Journal, Vol. 60, Issue 6, December 2018, pp. 1797-1808. https://doi.org/10.1017/RDC.2018.83 (*WOS*)
23. C.Bucur, C.Ichim, I.Florea. ^{14}C Release from TRIGA irradiated graphite. Radiocarbon Journal, Vol. 60, Issue 6, December 2018, pp. 1819-1829. https://doi.org/10.1017/RDC.2018.131 (*WOS*)
24. D. Diaconu, A. Constantin, C. Bucur. Sensitivity Analysis of C-14 Radiological Impact for a Generic Concept of Spent Fuel Disposal in Romania. Journal of Nuclear Research and Development (ISSN 2247-191X), No. 16, December 2018.
25. Ricard, D.; Plumeri, S.; Boucher, L.; Rizzo, A.; Tietze-Jaensch, H.; Mathonat, C.; Bruggeman, C.; Velthuis, J.; Thompson, L.; Genoud, G.; Bucur, C.; Kikola, D.; Zakrzewska-Koltuniewicz, G. The CHANCE project "Characterization of conditioned nuclear waste for its safe disposal in Europe", in proceeding of International conference on dismantling challenges: industrial reality, prospects and feedback experience - DEM 2018, Avignon (France), 22-24 Oct 2018.
26. C. Bucur, C. Ichim, M. Olteanu, I.Florea, The influence of high pH contaminant plum on cesium sorption on Saligny loess, Journal of Nuclear Research and Development, No. 13, pp. 7-11, 2017.
27. I. Florea, C. Diaconuescu, M. Mihalache, N. Deneanu, C. Bucur. Effect of Various Environments on Mechanical Strength of Mortars, in proceedings of Nuclear 2017, the 10th Annual International Conference on Sustainable Development through Nuclear Research and Education, 24-26 May 2017. Pitești, România, ISSN 2066-2955, Part 2/3.
28. D. Petrescu, L. Velciu, C. Bucur. Experimental Study of Antimony Adsorption on Magnetite in Aqueous Solutions, in proceedings of Nuclear 2017, the 10th Annual International Conference on Sustainable Development through Nuclear Research and Education, 24-26 May 2017. Pitești, România. pp.233 – 238, part 1/3, ISSN 2066-2955.
29. I. Florea, C. Bucur, C. Ichim, C. Diaconescu. Cesium Sorption on Intact and Degraded Mortar, Proceedings of NUCLEAR 2016 the 9th Annual International Conference on Sustainable Development through Nuclear Research and Education, 27-29 May 2016, Pitești, România, Part 2/3, pp. 46-50, ISSN 2066-2955.
30. I. Paraschiv, C. Bucur, M. Valeca. Laboratory Experiments for Evaluation of Cs Transport Parameters Through Geologic Environments for -Radioactive Waste Disposal, in proceeding of Nuclear 2015, Annual International Conference on Sustainable Development through Nuclear Research and Education, 27-29 May 2015, Pitești, România. pp. 88-96, Part 3/3. ISSN 2066-2955.
31. M. Olteanu, C. Bucur. A Destructive Sample Preparation Method for Radioactive Waste Characterization, in Proceedings of NUCLEAR 2015 the 8th annual international conference on sustainable development through nuclear research and education. Part 2/3. ISSN 2066-2955.
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34. C. Bucur, D.Diaconu, M. Fulger, C.Iorgulis, M.Dianu, C-14 in CANDU spent fuel and Long - Lived Radioactive Waste generated by Cernavoda NPP, in proceeding of Nuclear 2015, Annual International Conference on Sustainable Development through Nuclear Research and Education, 27-29 May 2015, Pitești, România

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36. A.Constantin, A.Genty, D.Diaconu, C. Bucur, Unsaturated water flow and tracer transport modeling with Aliances, Journal of Nuclear Engineering and Design, Volume 265, 986–996, December 2013 (*WOS*).
37. A.Constantin, A.Genty, D.Diaconu, C. Bucur, Tracer transport modeling with the Alliances platform, Kerntechnik, 78(5): 422-430, 2013 (*WOS*).
38. M. Olteanu, M. Iordache, C. Bucur. ^{94}Nb separation on ion exchange resins, in Proceedings of NUCLEAR 2013 the 6th annual international conference on sustainable development through nuclear research and education. Part 3/3, ISSN 2066-2955.
39. C. Bucur, D. Diaconu, A. Constantin, Gas migration experiments through Romanian bentonite, in proceeding of International Symposium and workshop on Gas generation and migration, Luxembourg, February 5-7, 2013
40. A. Constantin, D. Diaconu, C. Bucur. Performance assessment for disposal of irradiated graphite from research reactors in a near surface repository, in Journal of Nuclear Research and Development, ISSN 2247-191X, no. 4, p 29-34, 2012 (*WOS*).
41. Stoica, O. Popescu, C. Ichim, C. Bucur. Lysimeter station for Saligny site, in proceeding of International Conference on Sustainable Development through Nuclear Research and Education, May, 26-28 2012, Pitesti Romania, p. 532-537.
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