

Lucrări științifice / tehnice cotate sau indexate ISI, WoS

1. **Manuela Fulger, Dumitra Lucan, Maria Mihalache, Lucian Velciu**, "*Factors Involved in Stress Corrosion Cracking of Tubes from a Nuclear Power Plant Feedwater Heater*", Revista de Chimie, ISSN 0034-7752, vol 70, nr. 11/2019
2. **I. Vișan, A. Moise**, "*Evaluation of the Th-U mixed oxide fuel neutronic characteristic in a CANDU 6 reactor*", Annals of Nuclear Energy, vol 129, pag. 240-248, iulie 2019
3. V. Malinovschi, **A. Marin**, V. Andrei, E. Coaca, C. N. Mihailescu, Cristian P. Lungu, Cristiana Radulescu, Ioana Daniela Dulama, "*Obtaining and characterization of PEO layers prepared on CP-Ti in sodium dihydrogen phosphate dihydrate acidic electrolyte solution*", Surface and Coatings Technology, 375, 621-636, (IF=3.192), 2019
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8. E. Nazemi, **M. Dinca**, A. Movafeghi, B. Rokrok, M.H. Chooan Dastjerdi, "*Estimation of volumetric water content during imbibition in porous building material using real time neutron radiography and artificial neural network*", Nuclear Instruments And Methods in Physics Research, A, 940 (2019) pp. 344-350
9. **M. Dinca**, E. Nazemi, A. Movafeghi, B. Rokrok, M.H. Chooan Dastjerdi, "*Some considerations about a Soller collimator for neutron imaging*", Radiation Physics and Chemistry, 165 (2019) 108429
10. B. Grambow, M. López-García, J. Olmeda, M. Grivéa, 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, J. Kittnerová, B. Drtinová, S. Ribet, "*Retention and diffusion of radioactive and toxic species on cementitious systems: Main outcome of the CEBAMA project*", Applied Geochemistry, Volume 112, 104480 DOI:10.1016/j.apgeochem.2019.104480, Noiembrie 2019

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1. **Mihai-Cătălin Arva, Mihai Stoica**, "*Uninterrupted Temperature Acquisition and Monitoring System for Coolant Overheating in LFR Reactor*", Proceedings of NUCLEAR 2019 - The 12th International Conference on Sustainable Development through Nuclear Research and Education, 3 – 4 iunie 2019
2. **I.V. Gondac, C.F. Constantinescu**, "*The Improvement of Nuclear Installations Operation using PSA Applications*", Proceedings of NUCLEAR 2019 - The 12th International Conference on Sustainable Development through Nuclear Research and Education, 3 – 4 iunie 2019
3. **Marieta Șerbănel, Iosif Prodea**, "*Thermalhydraulic Model for CANDU Core Loaded with NUE Fuel Bundles*", Proceedings of NUCLEAR 2019 - The 12th International Conference on Sustainable Development through Nuclear Research and Education, 3 – 4 iunie 2019
4. **Iosif Prodea**, "*Investigating the Influence of Refueling Scheme Pattern on Core Parameters of a CANDU Reactor FED with Thorium-based fuel*", Proceedings of NUCLEAR 2019 - The 12th International Conference on Sustainable Development through Nuclear Research and Education, 3 – 4 iunie 2019
5. **A. Moise, I. Visan, A. Rizoiu**, "*Evaluations of TH-based CANDU 6 Fuel Bundle Performance using MONTE CARLO and Collision Probability Methods*", Proceedings of NUCLEAR 2019 - The 12th International Conference on Sustainable Development through Nuclear Research and Education, 3 – 4 iunie 2019

6. **I. Visan, A. Moise**, "*Isotopic Inventories of the Discharged T37 Fuel Bundles*", Proceedings of NUCLEAR 2019 - The 12th International Conference on Sustainable Development through Nuclear Research and Education, 3 – 4 iunie 2019
7. **Bogdan Corbescu, Tiberiu Gyongyosi, Dumitru Puiu**, Valeriu Nicolae Panaitescu, "*Forming an Ice Plug inside a Horizontal 200 mm Nominal Diameter Pipeline using a 55% Nitrogen Vapours Exhaust Nozzle Restriction*", Proceedings of NUCLEAR 2019 - The 12th International Conference on Sustainable Development through Nuclear Research and Education, 3 – 4 iunie 2019
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9. **Tiberiu Gyongyosi, Gheorghe Deloreanu, Dumitru Puiu, Bogdan Corbescu, Nicolae Anghel, Ramona Nastase, Elena Dinu**, "*Ageing Behaviour of the Pressure Tube Simulator – Spacer – Calandria Tube Simulator (by Stages), in the Second Half Service Period*", Proceedings of NUCLEAR 2019 - The 12th International Conference on Sustainable Development through Nuclear Research and Education, 3 – 4 iunie 2019
10. **Ovidiu Ichim, Cristian Gentea, Octavian Uță, Ion Man**, "*THERATRON Medical Radiological Installations Decommissioning and Intermediary Storage of the Spent Radiological Sources in PIEL as Radioactive Waste*", Proceedings of NUCLEAR 2019 - The 12th International Conference on Sustainable Development through Nuclear Research and Education, 3 – 4 iunie 2019
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12. Victoria Morlova, **Constantin-Șerban Valeca, Minică Ioncescu**, "*Metallographic and Ceramographic Examination of Irradiated Nuclear Fuel*", Proceedings of NUCLEAR 2019 - The 12th International Conference on Sustainable Development through Nuclear Research and Education, 3 – 4 iunie 2019
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19. R. Joitescu, D. Chirlesan, **L. Popa, M. Tunaru, L. Velciu**, "*Study of Corrosion Behaviour of some Dissimilar Welds from CANDU NPP Primary Circuit*", Proceedings of NUCLEAR 2019 - The 12th International Conference on Sustainable Development through Nuclear Research and Education, 3 – 4 iunie 2019
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21. Rotari Daniel, **Serban Constantin Valeca, Csaba Roth**, "*Bonner Sphere Neutron Spectrometry – Neutron Spectrometer Calibration Experiments*", Proceedings of NUCLEAR 2019 - The 12th International Conference on Sustainable Development through Nuclear Research and Education, 3 – 4 iunie 2019
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25. Ionita Catalin Stefanita, **Serban Constantin Valeca**, **Petre Busuioc**, "*Experimental Method of Molybdenum-99 Obtained in TRIGA SSR Reactor*", Proceedings of NUCLEAR 2019 - The 12th International Conference on Sustainable Development through Nuclear Research and Education, 3 – 4 iunie 2019
26. **Alexandru Mihai Nicolae**, **Marian Nicolae Ionescu**, **Mirela Ancuta**, **Alexandru Pulpa**, Monica Valeca, "*In Core Mobile System for Simulating Power Cycling Irradiation Conditions of Nuclear Fuel*", Proceedings of NUCLEAR 2019 - The 12th International Conference on Sustainable Development through Nuclear Research and Education, 3 – 4 iunie 2019
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42. **Al. Ion**, **V. Radu**, **Al. Nitu**, "*The Influence of Hydrogen Concentration on the Ramberg-Osgood Constitutive Equation for Zr-2.5%Nb Pressure Tube Alloy*", Journal of Nuclear Research and Development, no. 17, may 2019
43. **M. Fulger**, **M. Mihalache**, **L. Velciu**, **D. Petrescu**, "*Oxidation Behaviour of Fe-Cr-Ni Alloys in Supercritical Water*", Journal of Nuclear Research and Development, no. 18, december 2019
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51. **Dumitra Lucan**, **Șerban Constantin Valeca**, Gheorghita Jinescu, **Maria Mihalache**, "*Romania's Contribution to the Development of the Knowledge Society in the Field of Nuclear Energy Research*", Journal of Engineering Sciences and Innovation, Volume 4, Issue 4 / 2019, pp. 399-410, ISSN 2606-6699
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Lucrări științifice / tehnice în reviste, altele decât cele cotate sau indexate

1. **Ilie Turcu**, "*Tehnologia reactorilor cu neutroni rapizi răciți cu plumb în România; proiectul ALFRED*", EMERG vol. 11, Quarterly publication of WEC/RNC and AGIR, ISSN 2668-7003, AGIR Publishing House, Septembrie 2019
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3. **M. Nitoi**, "*Efforts in Preparing the Advanced Lead-Cooled Fast Reactor European Demonstrator Deployment*", Eurosafe Newsletter, 25 Septembrie 2019
4. **M. Constantin**, "*Source term calculation for the relevant severe accidents in CANDU type reactors*", Eurosafe Newsletter, 25 Septembrie 2019

Comunicări științifice prezentate la conferințe naționale și internaționale

1. **Daniela Gugiu**, "*Infrastructures planned to be built and operated in Romania*", Consultancy Meeting on the Update of the Online Catalogue of Facilities in Support of Liquid Metal Cooled Fast Neutron Systems, Viena, Austria, 29 - 31 ianuarie 2019
2. **D.Barbos**, **M.Ciocanescu**, "*Ageing management at TRIGA14MW Research Reactor*", Regional Meeting on Application of the Code of Conduct on the Safety of Research Reactors: Ageing Management and Periodic Safety Review, Bruxelles, 10 – 16 martie 2019
3. **Dumitra Lucan**, "*Innovation for a Safe, Efficient and Low-Carbon Nuclear Energy Production*", Annual Forum 2019 NUGENIA (Nuclear Generation II and III/III+ Association), Paris, Franța, 13 – 15 martie 2019
4. F. Mascari, F. Rocchi, P. Carny, L. Liptak, M. Ardoni, J. Fontanet, L.E. Herranz, M. Shawkat, W. Raskob, M. Cousin, **M. Constantin**, F.Di Dedda, T. Augustsson, G.Arbaev, P. Isaksson, J.Kubicekl, "*FASTNET Scenarios Database Development and Status*", ERMSAR2019, Prague, 18-20 martie 2019
5. **M. Dulama**, "*Spent Ion exchange Resins Bituminization at the Institute for Nuclear Research Pitesti*", Technical Meeting on the Practices and Challenges Associated with the Management of Bituminized Radioactive Waste din cadrul International Predisposal Network, IAEA, Viena, Austria, 19-22 martie 2019
6. **M. Constantin**, **S.C. Valeca**, "*Safety Aspects of LFR Demonstrator Implementation Process in Romania*", GIF Meeting, IAEA, Viena, 20 - 22 martie 2019
7. **C. Bucur**, D. Ricard, H. Tietze-Jaensch, "*Radioactive waste characterization practices and gaps in Europe*", CHANCE "Topical day", Mechelen, Belgia, 20 martie 2019
8. **C. Bucur**, A. Dodaro, B. Ferruci, G. Meskens, D. Ricard, H. T. Jaensch, P. Thomas, C. Turcanu, "*Synthesis of the EUG questionnaire responses*", CHANCE EUG meeting, Mechelen, Belgia, 21-22 martie 2019
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10. **Mariea Deaconu, Ion Furtună, Alice Dinu, Maria Mihalache**, "*The Evaluation of Hydrogen Storage Systems in the Context of a "Hydrogen Economy"*", Technical Meeting on the Role of Nuclear Hydrogen Production in a Low Carbon Economy, 8 – 10 aprilie 2019, Viena, Austria
11. **Minodora Apostol**, "*Dialogul dezvoltator-comunitate locala in contextul proiectului ALFRED*", Intalnirea Grupului Local de Dialog ALFRED, Mioveni, 11 aprilie 2019
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13. **C. A. Margeanu**, "*Review and comments on NEST ver3.0 tool and User guide. Proposals for Step 4*", CM of "NESA Economics Support Tool (NEST) Update"; IAEA, Viena, Austria, 13 – 16 mai 2019
14. **Marin Dinca**, "*High resolution neutron diffractometer facility from INR Pitesti*", IAEA Technical Meeting on Neutron Scattering and Spectroscopy with Low and Medium Flux Neutron Sources, Viena, Austria, 13–16 mai 2019
15. **Madalina Ciocanescu, D. Barbos, M. Ciocanescu**, "*The Management of radioactive waste and spent nuclear fuel from 14MW TRIGA research reactor operated by the Institute for Nuclear Research Pitesti, Romania*", Technical Meeting on the Current State of and Developments in the Management of Radioactive Waste from Research Reactors, IAEA Viena, 18 -25 mai 2019
16. **Cristian Dulama**, "*Nuclear techniques applied to radiological characterization of NORM*", International Symposium on Natural Radiation Sources- Challenges, Approaches and Opportunities, Bucuresti, 21 – 24 mai 2019, prezentata in 22.05.2019
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25. **R. A. Preda, S. C. Valeca, D. Predescu**, "*Functional Simulation for the Separators Assembly and F/M Head Magazine Supply Systems using an ISAGRAF/OS9 – WME System*", NUCLEAR 2019 - The 12th International Conference on Sustainable Development through Nuclear Research and Education, 3 – 4 iunie 2019, Pitesti
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30. **A. Ciocirlan, M. Valeca, D. Bujoreanu**, "*Measurement of the Leachability of Solidified Radioactive Waste for Disposal at National Repository Baita-Bihor*", NUCLEAR 2019 - The 12th International Conference on Sustainable Development through Nuclear Research and Education, 3 – 4 iunie 2019, Pitesti
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35. B. Chiriac, **R. Dobrin**, M. Valeca, "*Measurement of Beta Activity by Spectrometry with Liquid Scintillators*", NUCLEAR 2019 - The 12th International Conference on Sustainable Development through Nuclear Research and Education, 3 – 4 iunie 2019, Pitesti
36. A. Parvu, M. Valeca, **R. Iordache**, "*Assessing the Radiological Impact of Normal Operation of a nuclear Installation*", NUCLEAR 2019 - The 12th International Conference on Sustainable Development through Nuclear Research and Education, 3 – 4 iunie 2019, Pitesti
37. G. Radu, **M. Dulama**, M. Valeca, "*Study of Methods Recommended for the Treatment of Radioactive Liquid Waste from Chemical Decontamination Processes*", NUCLEAR 2019 - The 12th International Conference on Sustainable Development through Nuclear Research and Education, 3 – 4 iunie 2019, Pitesti
38. A. Despa, **S. Valeca, O. Popescu**, "*Gas Detectors for Measurement of Alfa and Beta Gamma Contamination*", NUCLEAR 2019 - The 12th International Conference on Sustainable Development through Nuclear Research and Education, 3 – 4 iunie 2019, Pitesti
39. M. Cirstea, **S. C. Valeca, G. Ghita**, "*Modeling a Venturi Flow Meter Using Fluent CFD Computer Code*", NUCLEAR 2019 - The 12th International Conference on Sustainable Development through Nuclear Research and Education, 3 – 4 iunie 2019, Pitesti
40. C. Catrina, **S. C. Valeca**, "*Neutronic Characterization of the Advanced CANDU Fuel Bundle using Monte Carlo methods*", NUCLEAR 2019 - The 12th International Conference on Sustainable Development through Nuclear Research and Education, 3 – 4 iunie 2019, Pitesti
41. A. Mirescu, **S. C. Valeca, C. Diaconu**, "*Thermosiphoning Simulation in the Primary Circuit of CANDU 6*", NUCLEAR 2019 - The 12th International Conference on Sustainable Development through Nuclear Research and Education, 3 – 4 iunie 2019, Pitesti
42. Denisa Ene, Monica Valeca, **Viorel Ionescu**, "*Study of mechanical behaviour of the hydrided areas surrounding blunt notches from Zr-2.5%Nb specimens during the overload tests*", 9-th European Commission Conferences on EURATOM Research and Training in safety of Reactor Systems and Radioactive Waste Management, FISA 2019 and EURADWASTE 2019, 4 – 7 iunie 2019, Pitesti, Romania
43. **Daniela Gugiu**, "*Preliminary Investigation of Some Candidate Materials for LFRs*", FISA International Conference 2019, Pitesti, 4-7 iunie 2019
44. **M. Constantin**, "*Local, Regional and National Preparation to be a Perfect Host*", ALFRED Workshop, FISA International Conference, Pitesti, 3 - 4 iunie 2019
45. **Daniela Gugiu**, "*Status of ALFRED infrastructure implementation in Romania*", 52nd Meeting of the Technical Working Group on Fast Reactors, Pitesti, 10-14 iunie 2019
46. **A.F. Bucsa, D.Barbos**, "*Neutron activation analysis-k0 standardization applied on gen IV nuclear materials*", Seventh International Conference on Radiation in Various Fields of Research – RAD 2019, Herceg Novi, Montenegro, 10-14 iunie 2019
47. **M. Iordache**, "*Quality Management System in Treatment of Radioactive Waste Plant of Institute for Nuclear Research Pitesti – Romania*", Regional Workshop on "Improvement of Operational Procedures of Radioactive Treatment Centers", Viena, Austria, 17 - 21 iunie 2019
48. **C. A. Margeanu**, "*Benefits versus Risks - Comparative evaluation of Innovative and Evolutionary NES technologies*", TM of INPRO CENESO Collaborative Project; IAEA, Viena, Austria, 18 – 21 iunie 2019
49. **I. Prodea, C. Iorgulis**, C. Ciurea-Ercău, "*Safety analysis in support of mixed CANDU core licensing*", IAEA Workshop on "Safety assesement and independent oversight of mixed core licensing", 19 – 21 iunie 2019
50. **C. A. Margeanu**, "*Preliminary Assessment of LFR SMR cost competitiveness in Romanian energy mix*", Regional workshop on "SMR Deployment Scenarios in Global Energy Portfolio"; IAEA-CNCAN-RATEN ICN, Pitesti, România, 22 – 27 iunie 2019
51. **M. Constantin**, "*Viability of SMR Deployment in Romanian Energy Market Context and LFR SMR Concept Based on ALFRED*", IAEA Regional Workshop on SMR Deployment Scenarios in Global Energy Portfolio, Pitesti, Romania, 24 - 27 iunie 2019
52. **Mirela Nitoi**, "*Challenges in licensing ALFRED*", IAEA Regional Workshop on SMR Deployment Scenarios in Global Energy Portfolio, Pitesti, Romania 24 - 27 iunie 2019
53. **M. Constantin**, K.Vesnyakov, M.Nezhura, "*Reactor Technology Assessement on SMR in Retasland*", IAEA, RTA Workshop, Vienna, iunie 2019
54. **C. Bucur**, "*Problematic radioactive waste to be managed by RATEN ICN*", Regional workshop on „Selection of adequate technologies to address specific waste streams including problematic and legacy waste”, Moscow, Russian Federation, 1 - 5 iulie 2019

55. **Minodora Apostol**, *“WP5 Dissemination, Education and Training”*, PIACE Kick off Meeting, Brasimone, Italy, 4-5 iulie 2019
56. **D. Barbos, M. Ciocanescu**, *“Periodic safety review of TRIGA 14MW research reactor – Basis Document”*, Workshop on the Current Practices in Performing Comprehensive Evaluations of Safety and Periodic Safety Review in Nuclear Installations, Viena, Austria, 15-19 iulie 2019
57. **R. I. Dobrin, C. N. Dulama, V. Neculae**, *“⁹⁰Sr and Natural Uranium Determination by Cherenkov Counting”*, 19th International Balkan Workshop on Applied Physics and Materials Science – IBWAP 2019, Constanța, 16 – 19 iulie 2019
58. **Marin Dinca**, *“Imaging with thermal neutrons and gamma radiations for geological samples”*, 19th International Balkan Workshop on Applied Physics and Materials Science, Constanța, România, 16-19 iulie 2019
59. **M. Constantin**, *“Specific considerations for the deployment of nuclear cogeneration projects in Romania”*, TM on the Deployment of Nuclear Cogeneration Projects, IAEA Vienna, 22 -24 iulie 2019
60. **M. Constantin**, *“Source Term Calculations for Loss of Cooling Accident at CANDU Spent Fuel Pool”*, TM on Phenomenology, Simulation and Modelling of Accidents in Spent Fuel Pools, IAEA, Viena, 2 - 5 septembrie 2019
61. **Mirea Mladin**, *“TRIGA Romania Benchmark in the frame of the CRP T12029 & BATAN-2 Benchmark in the frame of the CRP T12029”*, IAEA Technical Meeting on Computational Benchmarks for Research Reactor Fuel Burnup and Activation Codes, IAEA Headquarters, Viena, 2 – 6 septembrie 2019
62. **Mirela Nitoi**, *“RATEN ICN contributions for ETSO”*, ETSO JSP Summer workshop, Bologna, Italia, 2 - 6 septembrie 2019
63. **Dumitra Lucan, Manuela Fulger, Maria Mihalache, Lucian Velciu**, *“The Synergistic Impurities Effect on the CANDU Steam Generator Tubing Corrosion”*, 21-st Romanian International Conference on Chemistry and Chemical Engineering, 4 – 7 septembrie 2019, Mamaia, Romania
64. **Marin Mincu**, *“Infrastructure for Production of Radioisotopes and Progress in Mo-99 Production from LEU Targets”*, HOTLAB 2019 - The 56-th edition of the Annual meeting hot laboratories and remote handling 08 - 12 septembrie 2019, India
65. **Mădălin Savu, Octavian Uta, Diana Mirita**, *“Destructive examination of experimental CANDU type nuclear fuel tested in TRIGA reactor”*, HOTLAB 2019 - The 56th edition of the Annual meeting hot laboratories and remote handling 08-12 septembrie 2019, India
66. **Mirela Nitoi**, *“EC JRC Ageing PSA Network: achievements and challenges”*, Workshop on Advanced Probabilistic Safety Assessment Approaches and Applications, EC JRC, Alkmaar, Netherlands, 9-13 septembrie 2019
67. **Mirela Nitoi**, *“Prospects on evaluating ageing effects using PSA studies”*, Workshop on Advanced Probabilistic Safety Assessment Approaches and Applications, EC JRC, Alkmaar, Netherlands, 9-13 septembrie 2019
68. **Minodora Apostol**, *“WP5: Strategia de creare a competentelor necesare implementarii si operarii infrastructurii ALFRED”*, Sedinta de lansare a proiectului PRO ALFRED, RATEN ICN Pitesti, 25 septembrie 2019
69. **C. Arsene**, *“Decontamination tests for irradiated graphite from thermal columns of TRIGA reactor”*, Technical Meeting on the International Project on Irradiated Graphite Processing Approaches (GRAPA), IAEA Vienna, 1 - 4 octombrie 2019
70. **M. Constantin**, *“Investigation of the Loss of Cooling Accident at CANDU Type SFP”*, ASCOM Meeting, Karlsruhe, 5 Octombrie 2019
71. **C. A. Margeanu**, *“Modelling Nuclear Energy System with MESSAGE-NES”*, CM on trial implementation and review of the training course on Scenario Analysis and Decision Support for Develop. of NES with Enhanced Sustainability; IAEA, Mexico City, Mexic, 07 – 11 octombrie 2019
72. **C. A. Margeanu**, *“Quiz on NES Scenario modelling with MESSAGE-NES”*, CM on trial implementation and review of the training course on Scenario Analysis and Decision Support for Develop. of NES with Enhanced Sustainability; IAEA, Mexico City, Mexic, 07 – 11 octombrie 2019
73. **C. A. Margeanu**, *“Hands-on creating a case for evaluating Economics of a NES using NEST”*, CM on trial implementation and review of the training course on Scenario Analysis and Decision Support for Develop. of NES with Enhanced Sustainability; IAEA, Mexico City, Mexic, 07 – 11 octombrie 2019
74. **C. A. Margeanu**, *“Illustration of application of the ROADMAPS template”*, CM on trial implementation and review of the training course on Scenario Analysis and Decision Support for Develop. of NES with Enhanced Sustainability; IAEA, Mexico City, Mexic, 07 – 11 octombrie 2019
75. **M. Constantin**, *“Nuclear Power Development in Romania in the Context of Future Energy Market and Climate Change Policies”*, International Conference on Nuclear and Climate Change, Vienna, 7 – 11 octombrie 2019
76. **Crina Bucur, M. Olteanu, I. Florea, C. Ichim**, *“RATEN involvement in WP FUTURE”*, FUTURE Kick-off meeting, Paul Scherrer Institute, Villigen, Switzerland, 8-9 octombrie 2019
77. **Alexandru Nițu, Vasile Radu, Viorel Ionescu**, *“RATEN ICN status on Mechanical Properties Investigation of 316L generation IV candidate material”*, Technical Meeting on Structural Materials for Heavy Liquid Metal Cooled Fast Reactors, 15 – 17 octombrie 2019, Viena, Austria
78. **Daniela Gugiu**, *“Simulations of some Structural Materials Behaviour under Neutron Irradiation”*, Technical Meeting on Structural Materials for Heavy Liquid Metal cooled Fast Reactors, IAEA, Viena, Austria, 15-17 octombrie 2019
79. **M. Farcasiu**, *“Lessons learned in the human and organizational factor analysis”*, NEA/OECD, Committee on the Safety of Nuclear Installations, 27th Meeting of the Working Group on Human and Organizational Factors (WGHO), Palaiseau, France, 16 – 17 octombrie 2019

80. **M. R. Roman, D.V. Ionescu, G. Olteanu, I. Prisecaru**, "*Evolution of radial temperature distribution in mixed oxide fuels*", 9th International Conference on Energy and Environment - CIEM, Timisoara, 17-19 octombrie 2019
81. **A. C. Rădut, I. Prisecaru, G. Olteanu, I. Prodea**, "*Preliminary study of enhancing the performance of thorium based fuel inserted in improved CANDU C37M bundle*", 9th International Conference on Energy and Environment - CIEM, Timisoara, 17-19 octombrie 2019
82. **Cristian Dulama, Alexandru Toma**, "*Optimizarea activităților de radioprotecție și protecția mediului la ICN Pitești, prin aplicarea principiului ALARA*", Conferința Națională a Societății Române de Radioprotecție, Bucuresti, 18.10.2019
83. **Daniela Gugiu**, "*Infrastructure for training - related activities at RATEN ICN*", Regional Workshop on Nuclear Safety and Security Education, Atena, Grecia, 21-25 octombrie 2019
84. **C. Bucur, I. Florea, M. Olteanu, C. Ichim**, "*RATEN activities in CORI Task 3: Organic-Cement-Interactions*", 1st AWS for the WP CORI in EURAD, Barcelona, Spain, 23-25 octombrie 2019
85. **C. Bucur, C. Ichim, I. Florea, M. Olteanu**, "*RATEN activities in CORI Task 4: Radionuclide-Organic-Cement-Interactions*", 1st AWS for the WP CORI in EURAD, Barcelona, Spain, 23-25 octombrie 2019
86. **C. Truta, A. Amzoi, D. Barbos**, "*Reliability in Microjoining Processes for Instrumented Nuclear Fuel Element Fabrication*", 10th International Conference "Innovative Technologies for Joining Advanced Materials" - TIMA 19, 7 – 8 noiembrie 2019, Timisoara
87. **Dumitra Lucan, Lucian Velciu, Alice Dinu, Maria Mihalache**, "*In-Situ Monitoring of PHWR Water Chemistry Effect on Fuel Cladding Corrosion*", Technical Meeting on the Control and Monitoring of Coolant Chemistry and Related Issues on Fuel Reliability in Pressurized Heavy Water Reactor, 25 – 28 noiembrie 2019, Toronto, Canada
88. **C. A. Margeanu**, "*Application of INPRO KIND-ET tool- Romanian case study*", Material pregătire încărcat pe platforma IAEA INPRO School, noiembrie 2019
89. **C. A. Margeanu**, "*Introduction to ROADMAPS-ET tool*", Material pregătire încărcat pe platforma IAEA INPRO School, noiembrie 2019
90. **Mita Farcasiu**, "*Safety Culture in RATEN - ICN*", Regional Meeting on Research Reactor Safety within the Framework of the Europe Advisory Safety Committee for Research Reactors (EURASC), Swierk, Poland, 3 – 6 decembrie 2019
91. **M. Mladin, D. Barbos**, "*Designing an experiment in TRIGA 14 MW – Test Fuel Irradiation in a forced convection Loop*", Workshop Nuclear safety SCK-ICN „Evaluation of the safety of experiments in research reactor, 4 – 6 decembrie 2019
92. **D. Bujoreanu**, "*Management of waste containing long lived alpha emitters*", First Coordination Meeting for the "Management of Waste conditioning Long-Lived Alpha Emitters: Characterisation Processing and Storage", Viena, 9 - 13 decembrie 2019
93. **C. A. Margeanu**, "*Nuclear Energy Systems with enhanced sustainability: A case study on their economic competitiveness in the national energy mix*", Material pregătire on-line încărcat pe platforma IAEA Learning Management System, decembrie 2019
94. **C. A. Margeanu**, "*Developing a model for assessing the economic performance of NESs versus classic technologies using NEST*", Material pregătire on-line încărcat pe platforma IAEA Learning Management System, decembrie 2019
95. **C. A. Margeanu**, "*Developing a model for simple energy system, including NES with simplified nuclear fuel cycle, by using MESSAGE-NES*", Material pregătire on-line încărcat pe platforma IAEA Learning Management System, decembrie 2019
96. **C. A. Margeanu**, "*Developing a decision support model for the comparison of nuclear versus non-nuclear energy system using KIND-ET and its extensions*", Material pregătire on-line încărcat pe platforma IAEA Learning Management System, decembrie 2019
97. **C. A. Margeanu**, "*Developing a roadmap for nuclear energy deployment in a newcomer country using ROADMAPS-ET*", Material pregătire on-line încărcat pe platforma IAEA Learning Management System, decembrie 2019

CĂRȚI DE SPECIALITATE SAU CAPITOLE DE CARTE PUBLICATE ÎN ANUL 2019

1. **Lucan Dumitra**, "*Advances in Composite Materials Development*", IntechOpen Publishing, UK, London, 2019, ISBN: 9781789841299
2. **C.A. Mărgeanu, M. Apostol, M. Constantin, D. Gugiu, I. Prodea, A. Rizoiu**, "*Evolutionary versus Innovative NESs. Romanian case study*", capitol inclus în "*Application of Multi-criteria Decision Analysis Methods to Comparative Evaluation of Nuclear Energy System Options: Final report of the INPRO Collaborative Project KIND*", IAEA Nuclear Energy Series, NG-T-3.20, Noiembrie 2019, ISSN 1995-7807, ISBN 978-92-0-102319-3
3. **D. Gugiu&all**, "*Passive Shutdown Systems for Fast Neutron Reactors*", IAEA Nuclear Energy Series No. NP-T-1.16, IAEA Library Cataloguing in Publication Data, ISBN 978–92–0–101320–0