

MURARIU GABRIEL

ResearcherID: **C-5945-2012**

LISTA COMPLETA A LUCRARILOR ELABORATE ȘI/SAU PUBLICATE
A LISTA DE LUCRĂRI IN JURNALE INDEXATE ISI

1. Dariescu MA; Dariescu C; **Murariu G**, Gravitoelectromagnetically induced transitions in charged boson nebulae, EUROPHYSICS LETTERS Volume: 74 Issue: 6 Pages: 978-984 DOI: 10.1209/epl/i2006-10063-3 Published: JUN 2006 [Impact Factor FI (2006) = 2,229] (<http://iopscience.iop.org/article/10.1209/epl/i2006-10063-3>)
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3. Dariescu Ciprian; Dariescu Marina-Aura; **Murariu Gabriel**, TE modes in Einstein's Universe, CHAOS SOLITONS & FRACTALS Volume: 34 Issue: 4 Pages: 1030-1036 DOI: 10.1016/j.chaos.2006.04.070 Published: NOV 2007 [Impact Factor FI (2007) = 3,025] (<http://www.sciencedirect.com/science/article/pii/S0960077906004255>)
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7. **Gabriel Murariu**, Simona Condurache-Bota, *Temperature dependence of the optical properties of Bi₂O₃. A theoretical approach basing on the Kramers-Kronig transformation for polynomial mixed terms models*, Central European Journal of Physics (24 October 2012), pp. 1-8, doi:10.2478/s11534-012-0124-x [Impact Factor FI (2011) = 0,909] (<http://link.springer.com/article/10.2478/s11534-012-0124-x>)
8. C. Iticescu, L. P. Georgescu, **G. Murariu**. *Potential Effects of pH Variation Depending on the Temperature in the Drinking Water Supply System* p, 1324, Vol.13, The Journal of Environmental Protection and Ecology (JEPE) 2012, [Impact Factor FI (2011) = 0,102] (<http://www.jepe-journal.info/journal-content/vol-13-no-3>)
9. **G. Murariu**, L. Georgescu, C. Iticescu, M. Dobre, V. Gogoncea, *Specific Diffusion Using the Monte Carlo Simulation*, 2007, Vol.13, No 3A, The Journal of Environmental Protection and Ecology (JEPE) 2012, [Impact Factor FI (2011) = 0,102] (<http://www.jepe-journal.info/journal-content/vol13-no-3a>)

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23. **Murariu, Gabriel**; Hahuie, Valentin; Murariu, Adrian Gabriel; et al., GROWTH RATE MODELING FOR WHITE POPLAR IN THE SOUTH EASTERN PART OF ROMANIA: AN IMPORTANT ISSUE OF FOREST CONSERVATION, INTERNATIONAL JOURNAL OF CONSERVATION SCIENCE Volume: 8 Issue: 2 Pages: 303-316 Published: APR-JUN 2017, [Accession Number: WOS:000406555000015](#)

24. Buciumeanu, Elena-Cocuta; **Murariu, Gabriel**; Dinca, Lucian; et al., The influence of climatic factors on the main phenological phases of grapevines from Stefanesti Viticultural Center, Romania, ROMANIAN BIOTECHNOLOGICAL LETTERS Volume: 24 Issue: 6 Pages: 1055-1060 Published: NOV-DEC 2019, [DOI: 10.25083/rbl/24.6/1055.1060](#)

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35. Vlad-Emil Crișan, Lucian Dincă, Cosmin Bragă, **Gabriel Murariu**, Eliza Tupu, George Danut Mocanu, Romana Drasovean. The Configuration of Romanian Carpathians Landscape Controls the Volume Diversity of Picea Abies (L.) Stands, Land, 12 (2), 406, DOI10.3390/land12020406, Accession Number WOS:000940024300001, eISSN 2073-445X
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37. Lucian Dinca, Mirabela Marin, Vlad Radu, **Gabriel Murariu**, Romana Drasovean, Romica Cretu, Lucian Georgescu, Voichița Timiș-Gânsac, Which Are the Best Site and Stand Conditions for Silver Fir (Abies alba Mill.) Located in the Carpathian Mountains?, Diversity 2022, 14(7), 547; <https://doi.org/10.3390/d14070547>, Accession Number WOS: 000832327900001
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45. Simona Condurache-Bota, **Gabriel Murariu**, Romana Maria Drasovean, Romica Cretu, Urban noise pollution and anthropogenic relief; case study for a medium-sized city, International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, 2022, 22(5.1), pp. 497–504, DOI: 10.5593/sgem2022/5.1/s20.063, ISSN13142704.
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54. GD Mocanu, **G Murariu**, DA Iordan, I Sandu, MOA Munteanu, The perception of the online teaching process during the COVID-19 pandemic for the students of the physical education and sports domain, Appl. Sci. 2021, 11(12), 5558; <https://doi.org/10.3390/app11125558>, Accession Number WOS :000666011700001
55. R Drasovean, **G Murariu**, Water quality parameters and monitoring soft surface water quality using statistical approaches, Promising Techniques for Wastewater Treatment and Water Quality Assessment, 217
56. **G Murariu**, R Enescu, D Vasile, L Dinca, GD Mocanu, D Munteanu, A study regarding the parameters that influence the growth rate of Salix alba, Romanian Journal of Ecology & Environmental Chemistry, vol. 3, no. 2, pp. 78-88, 2021, <https://doi.org/10.21698/rjeec.2021.210>
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61. DE Vizitiu, L Dinca, **G Murariu**, CM Ciobotea, LP Georgescu, ANALYSING THE PHENOLOGICAL PHASES OF THE MAIN GRAPEVINE VARIETIES FROM STEFANESTI VITICULTURAL CENTRE, ROMANIA IN ORDER TO IMPROVE THEIR MANAGEMENT, *Journal of Environmental Protection and Ecology* 21 (1), 95-105, Accession Number WOS: 000531885700012

62. Buciumeanu, EC ; **Murariu, G** Dinca, L Vizitiu, DE Georgescu, LP The influence of climatic factors on the main phenological phases of grapevines from Stefanesti Viticultural Center, Romania, *ROMANIAN BIOTECHNOLOGICAL LETTERS*

Issue6 , Page1055-1060, DOI10.25083/rbl/24.6/1055.1060

63. Rosu, Bogdan ; Mocanu, George Danut; Pila, Mihaela Munteanu; **Murariu, Gabriel**; Rosu, Adrian; Arseni, Maxim, *Enhancing the Performance of a Simulated WWTP: Comparative Analysis of Control Strategies for the BSM2 Model*, **MATHEMATICS**, Volume11, Issue16, DOI10.3390/math11163471 , <https://www.webofscience.com/wos/woscc/full-record/WOS:001055705000001>

64. Mocanu, George Danut; **Murariu, Gabriel**, The influence of the specificity of sports specializations on the values of muscle power for female university students, The influence of the specificity of sports specializations on the values of muscle power for female university students, Volume14, Issue2, DOI10.12680/balneo.2023.563 , <https://www.webofscience.com/wos/woscc/full-record/WOS:001028799100001>

65. Crisan, Vlad-Emil; Dinca, Lucian; Braga, Cosmin, **Murariu, Gabriel**; Tupu, Eliza, Mocanu, George Danut, Drasoveanu, Romana, The Configuration of Romanian Carpathians Landscape Controls the Volume Diversity of Picea Abies (L.) Stands, *LAND*, Volume12 Issue2, DOI10.3390/land12020406, <https://www.webofscience.com/wos/woscc/full-record/WOS:000940024300001>

For complete list of paper – see the final section

B. TEZA DE DOCTORAT / PhD Thesis

Probleme de cuantificare a campurilor fizice pe spatii curbe

Quantifying fields problems on curved space-times

Univ. Al. I. Cuza – Iasi (2006) – calificativul – Cum Laude

B. TEZA DE ABILITARE / Habil Thesis

Modele matematice utilizate in studiul proceselor si fenomenelor de mediu

Mathematical models used in the study of environmental processes and phenomena

Univ. Vasile Alecsandri – Bacau (2017) – OMEN 3691-13.04.2017

C. BREVETE

- - Model industrial F0949-2006 – prin Hotărârea nr., nr. 19662/28.09.2007, (cu numărul de înregistrare al Registraturii OSIM 1047336/08.10.2007)

D. CARȚI ȘI CAPITOLE ÎN CARȚI / Books and book chapters

[D1] Prim Autor

1. **G. Murariu**, C. Tudose, R. Drașovean, L. Enache, "Mecanică Fizică și Acustică , Lucrări de Laborator", Editura Fundatiei Universitare „Dunarea de Jos” Galați, 2004 (99 pagini) 2004 – ISBN-973-627-155-2.
- 2. **G. Murariu**, D. Toma, N. Tigau, "Modelarea Fenomenelor Fizice - Lucrări de Laborator", Editura Universității București (235 pagini) 2005 – ISBN-973-627-155-2.
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1. M. Voiculescu, C. Tudose, L. Moraru, N. Tigau, **G. Murariu**, "Fizică – Lucrări practice de laborator", Editura Fundației Universitare "Dunărea de Jos" Galați -2001 –ISBN -973-8352-77-0
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2. Moraru L, **Murariu G** , The bonding forces in liquid metals and ultrasonic field action (<http://scitation.aip.org/content/aip/proceeding/aipcp/10.1063/1.2733530>), AIP CONFERENCE PROCEEDINGS Volume: 899 Pages: 789-789 <http://dx.doi.org/10.1063/1.2733530> Published: 2007 6th International Conference of the Balkan-Physical-Union, AUG 22-26, 2006 Istanbul, TURKEY, Source: Six International Conference of the Balkan Physical Union Book Series:
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1. Brevete

brevet OSIM - F0949-2006 – prin Hotărârea nr., nr. 19662/28.09.2007, (cu numarul de înregistrare al Registraturii OSIM 1047336/08.10.2007

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1.	1. (15.10.2007 - 15.09.2010)	project PN-II-PC – 81-009 Boundary layers and charge structures in circumplanetary plasmas - SAFIR - member
2.	2. (28.09.2007 -30.04.2010)	project PN-II-PC – 81-041 Archeometric expert system for the intelligent combating of traffic with cultural heritage values - ARCHEOPOLICE - member
3.	3. (1.10 2008 - 30.09.2011)	project POSDRU 16-1.5-S-6583 SIMBAD (http://www.posdru.ugal.ro/) Management System of Scholarships Granted to Doctoral Students - SIMBAD - Assistant manager
4.	4. (1.10 2009 - 30.10.2012)	project POSDRU/88/1.5/S/61445 EFFICIENT (http://www.posdru.ugal.ro/) Streamlining the activity of students within the cycle of doctoral studies- EFFICIENT - Assistant manager 1
5.	5. (1.10.2009 - 31.10.2012)	project POSDRU/211.5/S/19524 - Increasing the quality in the training of researchers based on doctoral programs improvement through partnership (pHd Expert) - member
6.	6. (1.10.2009 - 31.10.2012)	project POSDRU/211.5/S/19524 - Increasing the quality in the training of researchers based on doctoral programs improvement through partnership (pHd Expert) - Database administrator
7.	7. (1.12.2010 - 30.11.2013)	project POSDRU/107/1.5/S/ - 76822 (http://www.posdru.ugal.ro/) - Quality and continuity of training within the cycle of doctoral studies - TOP ACADEMIC - Assistant Manager 1
8.	8. (01.11.2011 - 30.11.2013)	TEMPUS Project - 511044- 2010-1-UK-JPCR Modernization of Post Graduate Studies in Chemistry an Chemistry Related Programs - member
9.	9. (21.03.2013- 30.09.2013)	Project TERTI 606/21.01.2013 Modeling and numerical study of a flying wing type UAV system - director
10.	10. (13.02.2013- 30.09.2015)	TERTI Project 138/13.02.2013 Study on the interaction of electrons with graphene in the electron beam lithography process - directory
11.	11. (08.04.2014 - 31.12.2015)	project POSDRU/159/1.5/S/138963 – PERFORM (http://www.perform.ugal.ro) Sustainable performance in doctoral and post-doctoral research. - Responsible for monitoring doctoral students
12.	12. (01.08.2013 - 09.07.2015)	MIS-ETC project no. 1475/09.07.2013 Black Sea Building Energy Efficiency Plan Innovative Instruments for Environmental Analysis in North Western Black Sea basin (Black Sea e-Eye) - member
13.	13. (02.05.2014 - 15.12.2015)	project POSDRU/144/6.3/S/129743 (http://www.posdru.ugal.ro/progres/) Supporting equal opportunities and professional promotion of women - PROGRES - Responsible target group monitoring
14.	14. (22.05.2014 - 05.11.2015)	POSDRU project 156/1.2/G/141248 - Quality system and internationalization in higher education in the field of TOURISM - ENVIRONMENT - CULTURE - member
15.	15. (24.06.2015- 30.09.2017)	TERTI Project 658/24.06.2015 Identification and implementation of modern monitoring methods - directory
16.	16. (27.10.2016 - 30.10.2018)	Bridge Grant project no. 79BG/2016 – PN III P2-2.1. 2016 -0307 Efficiency of the technological process for obtaining sewage sludge usable in agriculture EFFICIENT - researcher

17.	17. (15.06.2016 - 31.12.2016)	CNFIS - FDI project - 2016- 0029 Quality, mobility and diversity in the context of the internationalization of the activities of the Lower Danube University in Galati - member
18.	18. (19.06.2017 - 15.12.2017)	CNFIS - FDI project - 2016 - 0050 Excellence in education and scientific research in the context of the internationalization of the activities of the Lower Danube University in Galati - member
19.	19. (19.09.2017 - 15.07.2019)	project ROSA STAR 505 / 2017 Technical assistance for a Romanian Atmospheric Observation System (RAMOS) - member
20.	20. (06.11.2017 - 10.12.2018)	MCI Sectoral Project - 1PS - 01/03.11.2017 - "Strategy and methods to stimulate the promotion of research activity results and new tools for the development of the CDI market" - 1PS Researcher physics - chemistry - member
21.	21. (07.11.2017 - 24.04.2018)	MCI Sectoral Project - 3PS / 02.11.2017 - "Research in support of the development of the capacity to evaluate and mitigate the impact of climate change and other stress factors on the state of forest ecosystems and viticultural crops" – 3PS - Project manager
22.	22. (24.04.2017 - 10.12.2018)	MCI Sectoral Project - 3PS / 02.11.2017 - "Research in support of the development of the capacity to evaluate and mitigate the impact of climate change and other stress factors on the state of forest ecosystems and viticulture" – 3PS - member
23.	23. (07.11.2017 - 10.12.2018)	MCI Sectoral Project - 4PS/02.11.2017 - "Research in support of the development of the capacity to monitor, evaluate and capitalize on the natural resources offered by wetlands of international importance in Romania and the coastal area of the Sea Black" – 4PS - Project manager
24.	24. (07.11.2017 - 10.12.2018)	MCI Sectoral Project – 6PS/02.11.2017 - Research in support of the modernization of the national forest ecosystem monitoring system by using remote sensing techniques and UAV-type systems – 6PS - Project manager
25.	25. (07.05.2018 - 14.12.2018)	project CNFIS - FDI - 2018 - 0054 "Internationalization of academic activities and research and research in the Lower Danube University in Galati" - member
26.	26. (15.05.2018 - 30.06.2019)	PNCDI project – III contract 4/07.05.2018 - Strategy and actions for the preparation of national participation in the DANUBIUS-RI project - member
27.	27. (21.09.2018 - 01.09.2020)	project POCU 90/6.13/6.14/107814 Effective practical training program for students in the field of environmental protection and monitoring member - PROMEDIU - member
28.	28. (12.02.2019 - 10.08.2021)	project POCU 320/6/21/121659 Innovative tertiary education correlated with the smart development strategy - member
29.	29. (28.05.2019 - 20.12.2019)	project CNFIS-FDI-2019 -0084 Responsibility, efficiency and performance through the internationalization of higher education - member
30.	30. (21.09.2018 - 01.09.2020)	project POCU 380/6/13/123847 Academic excellence and entrepreneurial values - scholarship system to ensure opportunities for training and development of entrepreneurial skills of doctoral students and post-doctoral students (ANTREPRENORDOC) - member

31.	31. (15.07.2019- 30.06.2022)	POIM project /178/4/1/ 123322/ Contract no. 253/18.09.2019/POIM/ 123322 "Revision of the management plan and the RBDD regulation" - Member responsible for carrying out activities, coordination and management
32.		32. (15.07.2019- 30.06.2022) POIM project /178/4/1/ 123322/ Contract no. 253/18.09.2019/POIM/ 123322 "Revision of the management plan and the RBDD regulation" Member - statistical analysis specialist
33.	33. (21.11.2019- 12.12.2022)	TERTI Project 759/18.06.2019 "Works on the identification of parameters and their determination methods with the aim of quantifying emissions and absorptions of greenhouse gases from the LULUCF sector with applicability in the pilot area from the project entitled "Determining the methodology and coefficients specific to Romania in order to quantify GHG emissions and absorptions in order to quantify climate change" Contract No. 4PS/03.09.2019 - Physics researcher
34.	34. (22.04.2020 - 18.12.2020)	CNFIS-FDI-2020 -0094 project "Quality, education and international dimension at the Lower Danube University" - member
35.	35. (19.08.2020 - 31.12.2023)	project 309/10.07.2020 – POC 127065 Integrated system for research and complex monitoring of honey in the Danube river area - REXDAN – member
36.	36. (01.10.2020 - 31.12.2023)	POIM project /178/4/1/ 120890/ Contract no. 273/27.09.2019 "Improving the hydrological conditions in the natural aquatic habitats of the Danube Delta Biosphere Reserve for the conservation of biodiversity and fishery resources - Lake complexes Gorgova Uzlina, Roșu – Puiu" (contract 273/27.09.2019) - Statistical researcher
37.	37. (05.03.2021 - 31.12.2023)	POIM project /178/4/1/ 120889/ Contract no. 274/27.09.2019 "Improving the hydrological conditions in the natural aquatic habitats of the Danube Delta Biosphere Reserve for the conservation of biodiversity and fishery resources - Lake complexes Sontea – Furtuna, Matita – Merhei Somova" (contract 273/27.09.2019) - Statistical researcher
38.	38. (15.07.2022 - 05.12.2023)	project POCU 993/6/13/153299 Program for increasing performance and innovation in excellent doctoral and postdoctoral research - PROINVENT - member
39.	39. (03.06.2022- 15.12.2022)	project GI- 14883 / 11.05.2022 "Support and development of CDI-TT activities in the Dunarea de Jos University in Galati / The use of IoT and AI in the optimization of forest area management" - Member
40.	40. (16.05.2022 - 15.12.2023)	Internal Grant project - FSM 14886 / 11.05.2022 Internal research grant in the field of Environmental engineering regarding the study of the distribution of polluting factors in the South East area of Europe - director

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