

Curriculum Vitae

INFORMAȚII PERSONALE

Nume și prenume **Oana RUSU**
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Naționalitatea Romanian
Data nașterii 29.12.1980
Sex Feminin

LOCUL DE MUNCA ACTUAL

Asistent cercetare
Laboratorul de Optica Atmosferei Spectroscopiei i Laseri,
Universitatea "Alexandru Ioan Cuza" din Iasi
<http://spectroscopy.phys.uaic.ro/current.html>

EXPERIENȚA PROFESIONALĂ

Perioada Octombrie 2014-prezent
Ocupația sau poziția ocupată Doctorand
Numele și adresa angajatorului Facultatea de Fizica
Tipul sau sectorul de activitate Universitatea "Alexandru Ioan Cuza" din Iasi

EDUCATIE

Perioada octombrie 2011 – iulie 2013
Calificarea obținută Diploma Master
Subiect principal Masterat - Physical and environmental protection
Numele și adresa organizației de educație Universitatea "Alexandru Ioan Cuza" din Iasi
Perioada octombrie 1999 – iulie 2011
Calificarea obținută Diploma licenta
Numele și adresa organizației de educație Facultatea de Fizica, Specializarea Fizica Informatica
Universitatea "Alexandru Ioan Cuza" din Iasi

COMPETENTE PERSONALE

Limba maternă **Română**
Alte limbi străine cunoscute **Engleza (C1), Franceza (B1)**

COMPETENTE PROFESIONALE

Competențe
organizaționale/manageriale

Organizator de evenimente si training

Competențe digitale

Windows (8, 7, Vista, XP, 98, 95), Linux (beginner), Office (Word, Excel, PowerPoint), Origin, LabView (beginner), Corel Draw, Adobe Photoshop, C++

Lucrări științifice

Lucrări publicate în reviste ISI:

1. G. Bulai, **O. Rusu**, M. M. Cazacu, F. Tudorache, B. Chazallon, C. Focsa, and S. Gurlui, "Structural, magnetic and humidity sensing properties of rare earth doped cobalt ferrite thin films synthesized by pulsed laser deposition," *Journal of Ovonic Research*, vol. 14, no. 2, pp. 119–128, 2018. **IF: 0.618; AIS: 0.097**
2. M. M. Cazacu, O. G. Tudose, A. Timofte, **O. Rusu**, L. Apostol, L. Leontie, S. Gurlui, A case study of the behavior of aerosol optical properties under the incidence of a saharan dust intrusion event, *Applied Ecology and Environmental Research*, 2016, **IF: 0.681; AIS: 0.160**

Citări:

2.1: A. Cocean, V. Pelin, M. M. Cazacu, I. Cocean, I. Sandu, S. Gurlui, and F. Iacomi, "Thermal effects induced by laser ablation in non-homogeneous limestone covered by an impurity layer," *Applied Surface Science*, vol. 424, no. 3, pp. 324–329, 2017.

3. V. Pelin, **O. Rusu**, I. Sandu, V. Vasilache, S. Gurlui, A. V. Sandu, M. M. Cazacu, and I. G. Sandu, "Approaching on Colorimetric Change of Porous Calcareous Rocks Exposed in Urban Environmental Conditions from Iasi - Romania," *IOP Conference Series: Materials Science and Engineering*, vol. 209, no. 1, p. 012080, 2017.

Citări:

3.1: B. Ratoi, V. Pelin, I. Sandu, M. Branzila, and I. G. Sandu, "Hidden message in stone masonry of Galata monastery - Iasi city, Romania," *International Journal of Conservation Science*, vol. 9, no. 1, pp. 151–164, 2018.

3.2: V. Pelin, I. G. Breaban, I. Sandu, and S. Gurlui, "The Atmospheric Pollution Influence on the Surface Structures of Porous Geomaterials in Correlation with Some Natural Radionuclides," *Revista de chimie*, vol. 68, no. 6, pp. 1333–1340, Jun. 2017.

Lucrări publicate în reviste BDI:

1. V. Pelin, **O. Rusu**, M. M. Cazacu, S. Gurlui, A. V Sandu, I. Radinschi, V. Ciocan, and I. Sandu, "Assessment of Hydrophobic Coating on Porous Calcareous Rocks Surface Exposed in Urban Ambient Air Pollution," *IOP Conference Series: Materials Science and Engineering*, vol. 374, no. 1, p. 012091, Jun. 2018.

2. S. Gurlui, M. M. Cazacu, A. Timofte, **O. Rusu**, G. Bulai, and D. Dimitriu, "Space- and time-resolved Raman and breakdown spectroscopy: Advanced lidar techniques," EPJ Web of Conferences - The 28th International Laser Radar Conference (ILRC 28), vol. 176, pp. 1–4, 2018.
3. V. Pelin, **O. Rusu**, M. M. Cazacu, I. Sandu, S. Gurlui, V. Ciocan, I. Radinschi, and I. G. Sandu, "Comparative assessment on colorimetric change of calcareous geomaterials exposed in urban and periurban environmental conditions from Iasi city – Romania," Annals of the Academy of Romanian Scientists, Series on Engineering Sciences Volume, vol. 10, no. 1, pp. 17–28, 2018.
4. Marius-Mihai Cazacu, Ovidiu Gelu Tudose, **Oana Rusu**, Adina Elena Scripa (Tudose), Irina Radinschi, An overview of remote sensing techniques for the tropospheric aerosols monitoring. A case study, Bulletin of the Polytechnic Institute of Iasi, Romania, Section Mathematics. Theoretical Mechanics, Physics, Vol. 63 (67), Nr. 2, pp. 43-60, ISSN 1244-7863, 201, 2017

Lucrari prezentate la conferinte nationale și internaționale

1. **O. Rusu**, L. Leontie, B. Albina, A. T., I. A. Popescu, A. Timofte, G.Tiron, M. M. Cazacu, S. O. Gurlui, *Monitorizarea factorilor de mediu in zona de agrement Ciric in vederea identificarii intruziunilor de poluanti*, National Conference on Physics and Modern Education Technologies - FTEM 2015, 15-16 Mai 2015, Iași, România;
2. **O. Rusu**, L. Leontie, F. Brînză, S. Gurlui, *Rezultate preliminare privind influența unor acumulări de apa asupra unor funcții climatice*, Sesiunea de comunicări Științifice Studentești – FARPHYS 2014.
3. M. M. Cazacu, A. Timofte, **O. Rusu**, B. Albina, G. Bulai, L. Leontie, and S. Gurlui, *Advanced optical remote sensors for airborne and spaceborne platforms*, International Conference on the Physics of Optical Materials and Devices, 31 August - 4 Septembrie 2015, Budva, Montenegro;
4. **O. Rusu**, A. Timofte, M. M. Cazacu, B. Albina, G. Tiron, L. Leontie, S. O. Gurlui, *A case study of the transport processes of tropospheric aerosols over the Ciric-Iasi leisure area*, Workshop on Condensed matter research by means of neutron scattering methods, 4 – 7 Iulie, 2015, Constanța, România;
5. B. Albina, **O. Rusu**, A. Timofte, M. M. Cazacu, L. Leontie, G. Tiron, S. O. Gurlui, *Monitoring the environmental factors in Ciric Leisure Area to identify pollutant intrusions*, International Symposium: Present Environment and Sustainable Development, Iași, România, 5 – 7 Iunie, 2015;
6. **O. Rusu**, A. Timofte, M.M. Cazacu, S.O. Gurlui, F.Brinza, L.Leontie, *A case study of meteorological parameters near water accumulations with complementary regional data*, International Physics Conference - Tim14, 20 – 22 Noiembrie 2014, West University of Timisoara, Romania.
7. M. M. Cazacu, A. Timofte, **O. Rusu**, G. Bulai, S. Gurlui, *Study of the physico-chemical properties of the atmosphere dynamics: long distance remote laser induced raman & breakdown spectroscopy*, Environment & Progress, Simpozion național cu participare internațională, 30 Octombrie 2015 – prezentare orală.
8. B. Albina, M.M. Cazacu, **O. Rusu**, G. Bulai, S. Gurlui, K. Stebel, *Preliminary investigation of Turceni power plant SO2 emissions by imaging techniques*, Environment & Progress, Simpozion național cu participare internațională, 30 Octombrie 2015 – prezentare poster.

9. B. Albina, **O. Rusu**, G. Tiron, S. Gurlui, M. Cazacu, *New trends in AERONET parameters variations at Iași area*. Preliminary results, ELSEDIMIA 11th International Conference, 26 - 28 may 2016, Cluj-Napoca
10. M. Iftime, **O. Rusu**, L. Leontie, A. Banica, I.G. Breaban, M. Cazacu, A. Timofte, S. Gurlui, *Influence of traffic and meteorological factors on the physical and chemical properties of urban pollutants in Iasi City*, ELSEDIMIA 11th International Conference, 26 - 28 may 2016, Cluj-Napoca
11. **O. Rusu**, A. Timofte, M. Cazacu, G. Bulai, S. Gurlui, *Preliminary meteorological and air quality studies upon the natural climatic Ciric, Iasi area*. ELSEDIMIA 11th International Conference, 26 - 28 may 2016, Cluj-Napoca
12. V. Pelin, I.Sandu, M. Brânzilă, I.G. Breaban, **O. Rusu**, G. Tiron, G. Bulai, N. Cimpoesu, S. Gurlui, M. Cazacu, *Study of the polluting factors influencing the old road bridge in Iasi county*, ELSEDIMIA 11th International Conference, 26 - 28 may 2016, Cluj-Napoca
13. M. M. Cazacu, A. Timofte, **O. Rusu**, B. Albina, G. Bulai, and S. Gurlui, Workshop: *Contributii romanesti in domeniul mediului si observarii Pamantului*, 20 Septembrie 2016, Observatorul Atmosferic Roman, Magurele, Romania
14. A. Cocean, V. Pelin, **O. Rusu**, M.M. Cazacu, S. Gurlui, F. Iacomi, *Pollutants influences on the weathering of buildings architecture in Iasi City: laser restoration, experiment and modeling*, EBUILT-2016, Faculty of Civil Engineering and Building Services Iasi
15. **O. Rusu**, A. Cocean, V. Pelin, A. Timofte, M. Cazacu, S. Gurlui, *Hotspots air quality and meteorological parameters behavior over the Iasi City*, The fifth edition of the International Colloquium 'Physics of Materials' - PM-5, organized by the University POLITEHNICA of Bucharest, and the Academy of Romanian Scientists, between November 10-11, 2016.
16. B. Albina, **O. Rusu**, G. Tiron, S. Gurlui, M. Cazacu, *AERONET parameters behavior over of Moldova area*, The fifth edition of the International Colloquium 'Physics of Materials' - PM-5, organized by the University POLITEHNICA of Bucharest, and the Academy of Romanian Scientists, between November 10-11, 2016.
17. V. Pelin, M. Munteanu, V. Vasilache, I. Sandu, **O. Rusu**, S. Gurlui, M. M. Cazacu, M. Brânzilă, I. G. Sandu, *Hydrophobization and consolidation treatments perspectives in restoring indigenous calcareous lithic materials*, The 6th National Conference of Applied Physics, CNFA 2016, November 26 - 27, 2016, Iasi, Romania
18. G. Bulai, S. Irimiciuc, F. Husanu, **O. Rusu**, M.M. Cazacu, S. Gurlui, *Characterization of cobalt ferrite laser induced plasma by optical emission spectroscopy*, ICOLS 2017 - International Conference on Laser Spectroscopy. Palais des Congres, Arcachon, France, July 2 - 8, 2017
19. G. Bulai, S. Irimiciuc, F. Husanu, **O. Rusu**, M. M. Cazacu, S. Gurlui, *Optical emission spectroscopy analysis of fe, co and cofe₂o₄ laser induced plasmas*, the 9th International Conference on Advanced Materials: ROCAM 2017
20. M. M. Cazacu, G. Bulai, A. Timofte, A. Rosu, E. R. Rotaru, B. Albina, **O. Rusu**, O.G. Tudose, F. Husanu, L. Leontie, S. Gurlui. *Map of the pollutants in Iasi City: atmospheric and terrestrial measurements*, International Symposium "Present Environment and Sustainable Development" PESD 2017, 2-4 June 2017, Iași
21. M.M. Cazacu, G. Bulai, A. Timofte, A. Rosu, **O. Rusu**, F. Husanu, L. Leontie, S. Gurlui „Space-and time-resolved aerosols emission spectroscopy: advanced LIDAR techniques for environmental approach”, *Advances On Photocatalysis, AdvPhotoCat-E 2017*, The 2nd International

Workshop, Technological Educational Institute (TEI) of Crete, Heraklion, Greece, July 14 and 16, 2017

22. Gurlui Silviu, Cazacu Marius Mihai, Timofte Adrian, **Rusu Oana**, Bulai Georgiana, Dan Dimitriu, Space- and time-resolved Raman and breakdown spectroscopy: Advanced lidar techniques, 28th International Laser Radar Conference, Bucharest, Romania, June 25-30, 2017;
23. V. Pelin, **O. Rusu**, I. Sandu, V. Vasilache, S. Gurlui, A.V. Sandu, M.M. Cazacu, I.G. Sandu, Approaching on Colorimetric Change of Porous Calcareous Rocks Exposed in Urban Environmental Conditions from Iasi – Romania, EUROINVENT - ICIR 2017, International Conference on Innovative Research, Iasi – Romania, May 25th to 26th 2017
24. Alexandru Cocean, **Oana Rusu**, Alin Rosu, Georgiana Bulai, Adrian Timofte, Iuliana Cocean, Marius-Mihai Cazacu, Silviu-Octavian Gurlui, Space-and-Time Characterization of Trace Pollutants over Iasi City. Laser Induced Raman & Breakdown Spectroscopy Techniques, ELSEDIMA, Cluj, 2018
25. **Oana Rusu**, Vasile Pelin, Marius Mihai Cazacu, Bobi Apăvăloaei, Tony Cristian Dumitriu, Ion Sandu, Silviu Gurlui, The Perfect Pollution: an Overview of the Concept and Approaches to Evaluating of Irreversible Urban Development. A Case Study, ELSEDIMA, Cluj, 2018
26. **O. Rusu**, F. Unga, I. Popovici, V. Grasu, A. Timofte, O. G. Tudose, and M. M. Cazacu, “Evaluation of Air Quality from Measurement Campaign Organised in the Crossing of Podul De Piatra – Iasi City, During February 2018,” 12th International Conference Environmental Legislation, Safety Engineering and Disaster Management, 2018.