# Europass Curriculum Vitae

## Personal information

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|---|---|
| First name / Surname | **Rusu Daniela** |
| Address | Izvoarelor Street no. 8, 705200, Pascani, Iasi |
| Telephone | |
| E-mail | rusu.daniela@icmpp.ro |
| Nationality | Romanian |
| Date of birth | 30.04.1983 |
| Gender | Female |

## Professional experience

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|---|---|
| Dates | **April 2015 – present** |
| Occupation or position held | **Research Assistant** |
| Main activities and responsibilities | SEM and EDX analyses for a large variety of samples |
| Name and address of employer | "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania |
| Type of business or sector | Research activities |
| Dates | september 2006 – august 2014 |
| Occupation or position held | Chemistry Teacher |
| Main activities and responsibilities | Teaching chemistry in various schools and high-schools in Iasi County |
| Type of business or sector | Didactic activities |

## Education and training

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|---|---|
| Dates | **2014 – 2016** |
| Title of qualification awarded | |
| Principal subjects/occupational skills covered | **Master Degree** |
| Name and type of | Theme: "The study of anason based hydrogels with medical |

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|---|---|
| organisation providing education and training | applications by scanning electron microscopy" |
| Dates | **2002 – 2006** |
| Title of qualification awarded | **Bachelor of Chemistry** |
| Principal subjects/occupational skills covered | |
| Name and type of organisation providing education and training | Theme: "Non-spectrophotometric methods for vitamin C determination" |

## Personal skills and competences

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| Mother tongue | Romanian |
| Other language | English Language |

| Self-assessment | Understanding | | | | Speaking | | | | Writing | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Listening | | Reading | | Spoken interaction | | Listening | | Reading | |
| European level (*) | B 2 | Independent user | B 2 | Independent user | B 2 | Independent user | B 2 | Independent user | B 2 | Independent user |

(*) *Common European Framework of Reference for Languages*

**Social skills and competences**

- extremely organised person
- good abilities for synthetic and global views over concrete situations
- end-oriented work capacity
- problem-solving attitude

**Organisational skills and competences**

- strong capacity of organization and communication
- creative and innovative, high problem solving approach
- team player

**Technical skills and competences**

Advanced knowledge in the following domains:

- Organic and inorganic chemistry
- Scanning Electron Microscopy
- In-depth morphological and compositional analyses of various materials (polymers, minerals, fibers, paper) using Scanning Electron Microscopy coupled with an EDX system and results interpretation

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**Computer skills and competences**

Competent with Microsoft Office programs (Word, Excel, PowerPoint), Windows, EDAX Genesis, Scandium

## LIST OF PUBLICATIONS (2016 – 2020)

1. Formulation and evaluation of anise-based bioadhesive vaginal gels, C.A. Gafiţanu, D. Filip, C. Cernătescu, C. Ibănescu, M. Danu, E. Pâslaru, **D. Rusu**, C.G. Tuchiluş, D. Macocinschi, *Biomedicine & Pharmacotherapy*, 83, 485 – 495, **2016**
2. Polyimide micro- and nanoparticles via the reprecipitation method, C. Hulubei, C.D. Vlad, D. Popovici, I. Stoica, A.I. Barzic, **D. Rusu**, *Rev. Roum Chim*., 61(10), 797 – 804, **2016**
3. The influence of excipients on physical and pharmaceutical properties of oral lyophilisates containing a pregabalin-acetaminophen combination, A.P. Chiriac, A. Diaconu, L.E. Nita, N. Tudorachi, L. Mititelu-Tartau, A. Creteanu, O. Dragostin, **D. Rusu**, G. Popa, *Expert Opinion on Drug Delivery*, 14(5), 589 – 599, **2017**
4. Hyaluronic acid gels with tunable properties by conjugating with a synthetic copolymer, A. Diaconu, L.E. Nita, M. Bercea, A.P. Chiriac, A.G. Rusu, **D. Rusu**, *Biochemical Engineering Journal*, 125, 135 – 143, **2017**
5. Design, preparation and evaluation of HPMC-based PAA or SA freeze-dried scaffolds for vaginal delivery of fluconazole, M.F. Zaltariov, C.A. Gafiţanu, D. Filip, C. Cernătescu, **D. Rusu**, C.G. Tuchiluş, D. Macocinschi, *Pharmaceutical Research*, 34(10), 2185 – 2196, **2017**
6. Thermal, electrical and gas transport properties of new aromatic poly(ether ether ketone)/silica hybrid films, C. Hamciuc, E. Hamciuc, **D. Rusu**, M. Asandulesa, A. Wolinska-Grabczyk, *Polymer Composites*, 39(S3), E1544 – E1553, **2018**
7. Functional and structural analysis of a network containing a polymer structure with spiroacetal moieties and riboflavin as low molecular mass gelator, A.P. Chiriac, A.G. Rusu, A. Diaconu, N. Tudorachi, L.E. Nita, I. Neamtu, **D. Rusu**, *Materials Chemistry and Physics*, 217, 242 – 253, **2018**
8. Investigation of a self-assembled nanogel structure bearing spiroacetal moieties and cholesterol as low molecular mass gelator, A.P. Chiriac, A.G. Rusu, N. Tudorachi, L.E. Nita, A. Diaconu, **D. Rusu**, I. Neamtu, M. Asandulesa,V.M. Chiriac, *Revue Roumaine de Chimie*, 63(7-8), 673 – 684, **2018**
9. Interpenetrated Polymer Network with Modified Chitosan in Composition and Self-Healing Properties, G. Rusu, A. Chiriac, L. Nita, M. Bercea, N. Tudorachi, A. Diaconu, F. Cojocaru, D. Pamfil, **D. Rusu**, *International Journal of Biological Macromolecules*, 132, 374 – 384, **2019**
10. Multifunctional BSA scaffolds prepared with a novel combination of UV-crosslinking systems, A.G. Rusu, A.P. Chiriac, L.E. Nita, L. Mititelu-Tartau, N. Tudorachi, A. Ghilan, **D. Rusu**, *Macromolecular Chemistry and Physics*, 220, 1 – 12, **2019**
11. Functional polyimide-based electrospun fibers for biomedical application, D. Serbezeanu, T. Vlad Bubulac, **D. Rusu**, G. Gradisteanu Parcalabioru, I. Samoila, S. Dinescu, M. Aflori, *Materials*, 12, 1 – 15, **2019**
12. Effect of temperature and comonomer content on poly(Ɛcaprolactam-co-Ɛ-caprolactone) copolymers properties: An evaluation of structural changes and dielectric behaviour, E. Rusu, G. Rusu, **D. Rusu**, *Polymer Engineering and Science*, 59, 465 – 477, **2019**
13. Determination of the effective diffusion coefficient during the drying of paint and varnish films applied on fir wood, A. Mihaila, C. Lisa, A.M. Ipate, M.F. Zaltariov, **D. Rusu**, I. Mamaliga, G. Lisa, *Progress in Organic Coatings*, 137, 1 – 9, **2019**
14. Cellulose-based hydrogels in tissue engineering applications, **D. Rusu**, D. Ciolacu, B.C. Simionescu, *Cellulose Chemistry and Technology*, 53, 907 – 923, **2019**
15. Photocatalytic and antimicrobial activity of electrospun ZnO:Ag nanostructures, P. Pascariu, C. Cojocaru, P. Samoila, A. Airinei, N. Olaru, **D. Rusu**, I. Rosca, M. Suchea, *Journal of Alloys and Compounds*, 834, 1 – 9, **2020**