



## Europass Curriculum Vitae

### Personal information

First name(s) / Surname(s) **Mihaela-Dorina Onofrei**

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Date/place of birth August 12, 1976 / Iasi, Romania

Nationality Romanian

### Work experience

|                                      |   |
|--------------------------------------|---|
| Dates                                | 2019-present  |
| Occupation or position held          | Chemical Engineer   |
| Main activities and responsibilities | Thermodynamics of multicomponent polymer systems in solution/solid state;<br>Research for water resources and environmental protection.   |
| Name and address of employer         | “Petru Poni” Institute of Macromolecular Chemistry, Physical Chemistry of Polymers Department   |
| Type of business or sector           | Research  |
| Dates                                | 2017-2019   |
| Occupation or position held          | Chemical Engineer   |
| Main activities and responsibilities | Temporary interruption of research activity – maternity leave   |
| Name and address of employer         | “Petru Poni” Institute of Macromolecular Chemistry, Physical Chemistry of Polymers Department   |
| Dates                                | 2010-2017   |
| Occupation or position held          | Chemical Engineer   |
| Main activities and responsibilities | Fundamental/applied research in polymer science:<br>- physico-chemical characterization of the complex polymers structures (synthetic/natural);<br>- thermodynamical and morphological aspects of multicomponent polymer systems in solution/solid states;<br>- structure-property relationship, evaluation and interpretation;<br>- testing of polymeric matrices for biomedical/environmental fields. |
| Name and address of employer         | “Petru Poni” Institute of Macromolecular Chemistry, Physical Chemistry of Polymers Department   |
| Type of business or sector           | Research  |
| Dates                                | 2008-2010   |
| Occupation or position held          | Chemical Engineer   |

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| Main activities and responsibilities                           | Elemental analysis (qualitative/ quantitative): characterization of the polymers both in the solid state and solution (execution and conception).            |
| Name and address of employer                                   | “Petru Poni” Institute of Macromolecular Chemistry, Department of Physics and Polymer Structure  |
| Type of business or sector                                     | Research   |
| <b>Education and training</b>                                  |  |
| Dates  | 2010-2015  |
| Title of qualification awarded                                 | Doctor in Chemistry  |
| Principal subjects/occupational skills covered                 | Complex structures of some modified natural polymers   |
| Name and type of organisation providing education and training | Romanian Academy, “Petru Poni” Institute of Macromolecular Chemistry, Iasi   |
| Dates  | 2013-2015  |
| Title of qualification awarded                                 | Master Degree  |
| Principal subjects/occupational skills covered                 | Modification of natural polymers for biomedical application  |
| Name and type of organisation providing education and training | Gh. Asachi” Technical University of Iasi “, Faculty of Chemical Engineering and Environmental Protection<br>Section: Polymeric biomaterials and bioresources |
| Dates  | 1995-2000  |
| Title of qualification awarded                                 | Diplomat Engineer  |
| Name and type of organisation providing education and training | “Gh. Asachi” Technical University of Iasi “, Faculty of Industrial Chemistry<br>Section: Technology and Biotechnology of Environmental Protection            |
| Dates  | 1991-1995  |
| Title of qualification awarded                                 | High School Diploma  |
| Name and type of organisation providing education and training | “Mihail Sturdza”, Iasi<br>Section: Mathematical Physics  |
| <b>Personal skills and competences</b>                         |  |
| Mother tongue(s)   | Romanian   |
| Other language(s)  | English and Italian  |

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|---------------------------------------|---|
| Social skills and competences         | Team work and good communication;<br>Adaptive to new research environments and circumstances.   |
| Organisational skills and competences | Capacity for analysis, coordination, organization, assumption of responsibilities.  |
| Technical skills and competences      | Trained to use the following instruments:<br>- Schott viscosimeter (investigation of conformational changes of multicomponent polymeric systems in dilute solution);<br>- Bohlin CS50 rheometer (study of viscoelasticity and flow behavior of semi-concentrated polymer solutions);<br>- Zeiss interferometer, equilibrium dialysis, and refractometer (study of refractive index, refractive index increment of the polymer in solvent mixtures, and preferential adsorption coefficients); |
| Computer skills and competences       | Windows OS, MS Office, PowerPoint, AdobePhotoShop, Mathcad, SigmaPlot   |
| <b>Additional information</b>         | Research articles in ISI journals: 7<br>Book chapters: 6<br>National and international conferences (as author and/or speaker): 21<br>Total number of citations (without self-citations): 22<br>Member in project team: 1<br>Hirsch Index (Web of Science): 3  |