



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **Florica Doroftei**
Address(es) Str. Strugurilor, nr. 15, 700616 Iasi
Telephone(s) Mobile +040 755 693 071
E-mail florica.doroftei@icmpp.ro
Nationality Romanian
Date of birth 27.04.1978
Gender female

Desired employment / Occupational field / **Chemical Engineer**

Work experience

Dates July 2008 to present
Occupation or position held Chemical Engineer
Main activities and responsibilities Scanning electron microscopy on solid samples (film, powder), samples with water content (hydrogels) and elementary analyses EDX (qualitative and calitative)
Transmission electron microscopy, ED, EDX.
Name and address of employer "PETRU PONP" Institute of Macromolecular Chemistry, 41-A, Grigore Ghica Voda Alley, 700487 Iasi, Romania

Education and training

Dates 05.11.2012-09.11.2012
Title of qualification awarded
Principal subjects/occupational skills covered Training on Transmission Electron Microscopy(HT7700 –Hitachi)
Name and type of organisation providing education and training Hitachi High-Technologies Europe GmbH

Dates	12.02.2010-27.02.2010
Title of qualification awarded	Training on Transmission Electron Microscopy (LVEM5-Delong)
Principal subjects/occupational skills covered	Delong Instrumets LTD, Brno, Czech Republic
Name and type of organisation providing education and training	
Dates	03.2008-06-2008
Title of qualification awarded	Training on Scanning Electron Microscopy (Quanta 200 ESEM-FEI)
Principal subjects/occupational skills covered	“PETRU PONI” Institute of Macromolecular Chemistry
Name and type of organisation providing education and training	Ronexprim, Bucharest, Romania
Dates	08.2002-02.2008
Title of qualification awarded	Polymers synthesis and characterisation
Principal subjects/occupational skills covered	
Name and type of organisation providing education and training	Univ. Teh."Gh. Asachi" Iași- Faculty of Chemical Engineering and Environmental Protection
Dates	09.2001-06.2002
Title of qualification awarded	Masters
Principal subjects/occupational skills covered	Polymer synthesis and characterization Research and analysis of polymeric materials Morphological studies in multiphase polymer systems
Name and type of organisation providing education and training	Univ. Teh."Gh. Asachi" Iași- Faculty of Chemical Engineering and Environmental Protection
Dates	09.1996 - 06.2001
Title of qualification awarded	Chemical engineer
Principal subjects/occupational skills covered	Synthesis and processing of polymers Polymer Technology Adhesives and coatings
Name and type of organisation providing education and training	Univ. Teh."Gh. Asachi" Iași- Faculty of Chemical Engineering and Environmental Protection

Mother tongue(s)

Romanian

Other language(s)

Self-assessment

European level ()*

English

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	B1	Independent user	C1	Proficient user	B2	Independent user	C1	Proficient 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

I possess a strong capacity of organization and communication.
 I am creative and innovative, high problem solving approach. Team player and organizer.

Technical skills and competences

Advanced knowledge in the following the domains:

- Scanning electron microscopy
- Transmission electron microscopy
- Elemental analyses of materials using Scanning and Transmission Electron Microscope with an EDX system

Computer skills and competences

Competent with Microsoft Office programmes (Word, Excel, PowerPoint)

Driving licence

B category

Additional information

Annexes

Publications

1. A. Durdureanu, I. Stoica, M. Pinteala, L. Pricop, **F. Doroftei**, V. Harabagiu, B. C. Simionescu, H. Chiriac
A Glycidoxypropylsilane-functionalized magnetite as precursor for polymer-covered core-shell magnetic particles. High Performance Polymers, 21, 548-561 (2009).
2. B. Simionescu, **F. Doroftei**, M. Olaru, M. Aflori, C. Cotofana
Salt-induced decay in limestones treated with siloxane-based water repellents;
Journal of Optoelectronics and Advanced Materials - Symposia, 1, 1077-1082 (2009).
3. M. Drobota, G. Ioanid, M. Aflori, **F. Doroftei**
Plasma device design for polyesters modification in collagen immobilization applications;
Revista de Inventica, 12(64), 26-29 (2009).
4. G. Cazacu, D. Ciolacu, A. Ioanid, **F. Doroftei**, A. Cojocariu, C. Tanase, A. Oprea
Behaviour of the polymeric systems containing lignin in the various culture media;
Journal of Optoelectronics and Advanced Materials - Symposia, 1, 1110-1113 (2009).
5. M. Olaru, M. Aflori, B. C. Simionescu, **F. Doroftei**, L. Stratulat.
Effect of SO₂ Dry Deposition on Porous Dolomitic Limestones;
Materials 3, 216-231; doi:10.3390/ma3010216, ISSN 1996-1944, (2010).
6. A. Durdureanu-Angheluta, L. Pricop, I. Stoica, C. A. Peptu, A. Dascalu, N. Marangoci, **F. Doroftei**, H. Chiriac, M. Pinteala, B. C. Simionescu
Synthesis and characterization of magnetite particles covered with a-triethoxysilylpolydimethylsiloxane;
J Magn Magn Mat, 322, 2956-2968 (2010).
7. D. Serbezeanu, T. Vlad-Bubulac, C. Hamciuc, **F. Doroftei**
Synthesis and characterization of new phosphorus-containing poly(ester imides)s;
High Performance Polymers, 22, 916-929 (2010).
8. E. G. Ioanid, A. Ioanid, D. E. Rusu, **F. Doroftei**.
Surface investigation of some medieval silver coins in high-frequency cold plasma;
J Cultural Heritage, 12(2), 220-226 (2011).
9. A. M. Necula, I. Stoica, N. Olaru, **F. Doroftei**, S. Ioan
Silver nanoparticles in cellulose acetate polymers: Rheological and morphological properties;
J Macromol Sci Part B: Physics, 50, 639-651,(2011).
10. B. Simionescu, M. Olaru, M. Aflori, **F. Doroftei**
Siloxane-based polymers as protective coatings against SO₂ dry deposition;
High Performance Polymers, 23, 326-334, (2011).
11. L. Ignat, M. Ignat, C. Ciobanu, **F. Doroftei**, V. I. Popa
Effects of flax lignin addition on enzymatic oxidation of poly(ethylene adipate) urethanes;
Industrial Crops and Products, 34, 1017-1028 (2011).
12. S. Oprea, **F. Doroftei**
Biodegradation of polyurethane acrylate with acrylated epoxidized soybean oil blend elastomers by Chaetomium globosum;
International Biodeterioration & Biodegradation, 65, 533-538 (2011).
13. B. Simionescu, M. Olaru, M. Aflori, **F. Doroftei**

Micro-FTIR spectroscopy characterization of monumental stones protective coatings;
European Journal of Science and Theology, 7(3), 85-97 (2011).

14. I. Moleavin, C. Ibanescu, A. Hodorog-Rusu, E. Peptu, **F. Doroftei**, N. Hurduc
Amphiphilic azo polymers capable to generate photo-sensitive micelles;
Central Eur J Chem - 9(6), 1117-1125 (2011).

15. D. Suteu, D. Bilba, **F. Doroftei**, T. Malutan
Sorption of Brilliant Red HE-3B reactive dye from aqueous solution onto seashells waste: Equilibrium and kinetic studies;
Separation Science and Technology, 46, 1462-1471 (2011).

16. Racles, C., Stoica, I., **Doroftei, F.**, Cozan, V.
A simple method for the preparation of colloidal polymer-supported silver nanoparticles;
Journal of Nanoparticle Research, 13 (12), pp. 6971-6980 (2011).

17. D. M. Suflet, I. Popescu, I. M. Pelin, M. T. Nistor, G. E. Hitruc, **F. Doroftei**, G. Fundueanu.
Preparation and characterization of microcapsules based on phosphorylated curdlan and hydrolyzed collagen;
Digest Journal of Nanomaterials and Biostructures, 6, 653-661 (2011).

18. Alexandru, M., Cazacu, M., **Doroftei, F.**, Ignat, M., Timpu, D., Grigoras, C.V., Simionescu, B.C.
On the morphology and potential application of polydimethylsiloxane-silica-titania composites;
Express Polymer Letters, 5 (2), pp. 188-196, (2011).

19. Dragan, E.S., Lazar, M.M., Dinu, M.V., **Doroftei, F.**
Macroporous composite IPN hydrogels based on poly(acrylamide) and chitosan with tuned swelling and sorption of cationic dyes;
Chemical Engineering Journal, 204-205, pp. 198-209, (2012).

20. David, G., Cristea, M., Balhui, C., Timpu, D., **Doroftei, F.**, Simionescu, B.C.
Effect of cross-linking methods on structure and properties of poly(ϵ -caprolactone) stabilized hydrogels containing olymers;
Biomacromolecules, 13 (8), pp. 2263-2272, (2012).

21. Simionescu, B., Bordianu, I.-E., Aflori, M., **Doroftei, F.**, Mares, M., Patras, X., Nicolescu, A., Olaru, M.
Hierarchically structured polymer blends based on silsesquioxane hybrid nanocomposites with quaternary ammonium units for antimicrobial coatings;
Materials Chemistry and Physics, 134 (1), pp. 190-199, (2012).

22. Suteu, D., Bilba, D., Aflori, M., **Doroftei, F.**, Lisa, G., Badeanu, M., Malutan, T.
The seashell wastes as biosorbent for reactive dye removal from textile effluents;
Clean - Soil, Air, Water, 40 (2), pp. 198-205, (2012).

23. I. Spiridon, R. N. Darie, Ruxanda Bodîrlău, C. A. Teacă, **F. Doroftei** ,
Polypropylene based composites reinforced by toluene diisocyanate modified wood;
Journal of Composite Materials, 47, 3451-3464 (2013)

24. M. Mihai, F. Bucatariu, **F. Doroftei**
Synthesis and characterization of new hollow calcium carbonate/polyanion microspheres;
Revista de Chimie, 64, 338-342 (2013).

25. M. Cristea, D. Ionita, **F. Doroftei**, B. C. Simionescu
Effect of long-term and short-term dynamic mechanical evaluation of networks based on urethane and soybean oil;
Journal of the Mechanical Behavior of Biomedical Materials, 17, 317-326 (2013).
26. M. Aflori, B. Simionescu, I. E. Bordianu, L. Sacarescu, C. D. Varganici, **F. Doroftei**, A. Nicolescu, M. Olaru
Silsesquioxane-based hybrid nanocomposites with methacrylate units containing titania and/or silver nanoparticles as antibacterial, antifungal coatings for monumental stones;
Materials Science and Engineering B: Solid State Materials for Advanced Technology, 178, 1339-1346 (2013).
27. A. M. Dumitrescu, P. M. Samoila, V. Nica, **F. Doroftei**, A. R. Iordan, M. N. Palamaru
Study of the chelating/fuel agents influence on NiFe₂O₄ samples with potential catalytic properties;
Powder Technology, 243, 9-17 (2013).
28. C. Racles, M. Cristea, **F. Doroftei**, M. Alexandru
All-polymer composites from two incompatible polymers ;
Soft Materials, 11, 421-429 (2013.)
29. D. Ciolacu, **F. Doroftei**, G. Cazacu, M. Cazacu
Morphological and surface aspects of cellulose-lignin hydrogels ;
Cellulose Chemistry and Technology, 47, 377-386 (2013).
30. Mihai, M., Socoliuc, V., **Doroftei, F.**, Ursu, E.-L., Aflori, M., Vekas, L., Simionescu, B.C.
Calcium carbonate-magnetite-chondroitin sulfate composite microparticles with enhanced pH stability and superparamagnetic properties ;
Crystal Growth and Design, 13 (8), pp. 3535-3545, (2013).
31. B. Simionescu, I. E. Bordianu, M. Aflori, **F. Doroftei**, C. Cotofana, M. Olaru
Protective coatings based on silsesquioxane nanocomposite materials;
Polymer Nanocomposite Coatings, V. Mittal, Ed., CRC Press, Boca Baton, FL, 213-243 (2013)
32. **F. Doroftei**, T. Pinteala, A. Arvinte
Enhanced stability of a Prussian blue/sol-gel composite for electrochemical determination of hydrogen peroxide ,
Microchimica Acta, 181, 111-120 (2014).
33. A. Durdureanu-Angheluta, C. M. Uritu, A. Coroaba, B. Minea, **F. Doroftei**, M. Calin, S. S. Maier, M. Pinteala, M. Simionescu, B. C. Simionescu,
Heparin-anthranoic conjugates associated with nanomagnetic particles and their cytotoxic effect on cancer cells, Journal of Biomedical Nanotechnology, 10, 131-142(2014).
34. **F. Doroftei**, M. D. Damaceanu, B. C. Simionescu, M. Mihai
Calcium carbonate microparticle growth controlled by a conjugate drug- copolymer and crystallization time;
Acta Crystallographica Section B, 70, 227-235 (2014).
35. M. Mihai, S. Schwartz, **F. Doroftei**, B. C. Simionescu
Calcium Carbonate/Polymers Microparticles Tuned by Complementary Polyelectrolytes as Complex Macromolecular Templates;
Journal of Crystal Growth and Design; 14, 6073–6083(2014).

36. Cianga, L., Bendrea, A.-D., Fifere, N., Nita, L.E., **Doroftei, F.**, Ag, D., Selesi, M., Timur, S., Cianga, I
Fluorescent micellar nanoparticles by self-assembly of amphiphilic, nonionic and water self-dispersible polythiophenes with "hairy rod" architecture ;
RCS Advances, 4(99), 56385- 56405(2014).
37. Croitoru, C., Patachia, S., **Doroftei, F.**, Parparita, E., Vasile, C.
Ionic liquids influence on the surface properties of electron beam irradiated wood ;;
Applied Surface Science, 314, 956-966(2014).
38. M. A. Lungan, M. Popa, S. Racovita, G. Hitruc, F. Doroftei, J. Desbrieres, S. Vasiliu
Surface characterization and drug release from porous microparticles based on methacrylic monomers and xanthan;
Carbohydrate Polymers, 125, 323-333(2015).
39. M. Mihai I. Bunia, **F. Doroftei**, C. D. Varganici, B. C. Simionescu
Highly efficient copper(II) ion sorbents obtained by calcium carbonate mineralization on functionalized crosslinked copolymers;
Chemistry - A European Journal, 21, 5220-5230(2015).
40. D. Humelnicu, M. Ignat, **F. Doroftei**
Agricultural by-products as low-cost sorbents for the removal of heavy metals from dilute wastewaters;
Environmental Monitoring and Assessment, 187, 222/1-11 (2015).
41. **F. Doroftei**, M. Mihai, L. Sacarescu, G. Fundueanu, B. C. Simionescu
Composite materials based on poly(Nisopropylacrylamide-co-methacrylic acid) hydrogels and calcium carbonate;
High Performance Polymers, 27, 516-525(2015).
42. C. Solovan, **F. Doroftei**, M. Pinteala, A. Chiriac, C. Cristea
Scanning electron microscopic examination of the hair shaft abnormalities in Netherton's syndrome
International Journal of Dermatology, 54, 693-694(2015).
43. L. Mititelu-Tartau, E. Stoleru, **F. Doroftei**, A. Diaconu
Patterning poly(maleic anhydride-co-3,9-divinyl-2,4,8,10-tetraoxaspiro (5,5) undecane) copolymer bioconjugates for controlled release of drugs;
International Journal of Pharmaceutics, 493, 328-340 (2015).
44. E. Manaila, M. D. Stelescu, **F. Doroftei**
Polymeric composites based on natural rubber and hemp fibers;
Iranian Polymer Journal, 24, 135-148 (2015).
45. I. Stoica, A. I. Barzic, M. Butnaru, **F. Doroftei**, C. Hulubei
Surface topography effect on fibroblasts population on epichlorohydrin-based polyimide films;
Journal of Adhesion Science and Technology, 29, 2190-2207 (2015).
46. M. Iacob, M. Cazacu, C. Turta, **F. Doroftei**, M. Botco, E. Cizmar, A. Zelenakova, A. Feher
Amorphous iron-chromium oxide nanoparticles with long-term stability;
Materials Research Bulletin, 65, 163-168 (2015).
47. N. Vornicu, V. Deselnicu, C. Bibere, D. Ivanov, **F. Doroftei**
Analytical techniques used for characterization and authentication of six ancient religious manuscripts (XVIII-XIX centuries);

Microscopy Research and Technique, 78, 70-84(2015).

48. I. A. Turin-Moleavin, **F. Doroftei**, A. Coroaba, D. Peptanariu, M. Pinteala, A. Salic, M. Barboiu
Dynamic constitutional frameworks (DCFs) as nanovectors for cellular delivery of DNA;
Organic and Biomolecular Chemistry, 13, 9005-9011(2015).

49. R. N. Darie, S. Vlad, N. Anghel, **F. Doroftei**, T. Tamminen, I. Spiridon
New PP/PLA/cellulose composites: effect of cellulose functionalization on accelerated weathering behavior(accelerated weathering behavior of new PP/PLA/cellulose composites;
Polymers for Advanced Technologies, 26, 941-952(2015).

National and European projects in the last years:

Scientific integrate network for development of multifunctional polymeric materials based on knowledge, Project CEEEX Contract Matnantech CEEEX No. 366/03.10.2005	Member of the research team	2005-2008
High performance multifunctional polymeric materials for medicine, pharmacy, microelectronics, storage of energy/informations,environmental protection: CNCSIS Platform	Member of the research team	2006-2008
Ecological nanodispersion adhesives obtained by elastomer grafting and intended to be used in bonding leather, ribber and plastics PNCDI II –Partnership in prioritary fields FINANCED BY: National Centre for Programs Management-CNMP Contract no.: 32-132/01.10.2008	Member of the research team	2008-2011
Ecological nanodispersion adhesives obtained by elastomer grafting and intended to be used in bonding leather, ribber and plastics PNCDI II –Partnership in prioritary fields FINANCED BY: National Centre for Programs Management-CNMP Contract no.: 32-132/01.10.2008	Member of the research team	2008-2011
Porous ionic matrices with tailored architectures and responsiveness to host bioactive compounds Contract ID-PCE-2011-3-0300/2011	Member of the research team	2012-2015
Forest biorefineries:Added -value from chemicals and polymers by new integrated separation fractionation and upgrading technologies. Contract 119 Eu , CP-IP 228589-2 AFORE	Member of the research team	2012-2013
Biologically inspired system for engineered structural and functional entities. PN-II-ID-PCCE-2011-2-0067	Member of the research team	2012-2015
Bionanoconjugates formation by laser ablation liquid PN-II-RU-TE-2011-3-0174	Member of the research team	2011-2014