

Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)

Florica Doroftei

Address(es)

Strugurilor Street, no. 15, 700616 Iasi

Telephone(s)

Mobile +040 747 162 140

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 Poni” Institute of Macromolecular Chemistry, 41-A, Grigore Ghica Voda Alley, 700487 Iasi, Romania

Education and training

Dates

01.11.2012-01.11.2015

Title of qualification awarded

Principal

subjects/occupational
skills covered

Ph.D. in Chemistry – **“Contributions to calcium carbonate morphogenesis in the presence of low- and macromolecular ionic compounds by electron microscopy techniques”**

Name and type of
organisation providing
education and training

The Romanian Academy, Chemical Sciences Section, “Petru Poni” Institute of Macromolecular Chemistry



Dates	12.02.2010-27.02.2010
Title of qualification awarded	
Principal subjects/occupational skills covered	Training on Transmission Electron Microscopy (LVEM5-Delong)
Name and type of organisation providing education and training	<i>Delong Instrumets LTD, Brno, Czech Republic</i>
Dates	03.2008-06-2008
Title of qualification awarded	
Principal subjects/occupational skills covered	Training on Scanning Electron Microscopy (Quanta 200 ESEM-FEI)
Name and type of organisation providing education and training	“Petru Poni” Institute of Macromolecular Chemistry Ronexprim, Bucharest, Romania
Dates	08.2002-02.2008
Title of qualification awarded	
Principal subjects/occupational skills covered	Polymers synthesis and characterisation
Name and type of organisation providing education and training	<i>Univ. Teh. "Gh. Asachi" Iași- Faculty of Chemical Engineering and Environmental Protection</i>
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	<i>Univ. Teh. "Gh. Asachi" Iași- Faculty of Chemical Engineering and Environmental Protection</i>
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	<i>Univ. Teh. "Gh. Asachi" Iași- Faculty of Chemical Engineering and Environmental Protection</i>

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](#)

Organisational skills and competences

I possess a strong capacity of organization and communication.
Team player and organizer.

Technical skills and competences

Advanced knowledge in the following domains:
Scanning electron microscopy
Transmission electron microscopy
Elemental analyses of materials using Scanning and Transmission Electron Microscope with 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
Glycidoxypropylsilane-functionalized magnetite as precursor for polymer-covered core-shell magnetic particles
High Performance Polymers, 21, 548-561 (2009) ; *Impact factor: 1.584*
2. V. Sandu, S. Popa, I. Ivan, C. Plapcianu, E. Sandu, C. Mihailescu, **F. Doroftei**
Fabrication and Transport Properties of Manganite-Polyacrylamide-Based Composites
Journal of Nanomaterials, Article ID 429430(2009); *Impact factor: 2.233*
3. 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); *Impact factor: 2.972*
4. 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 Mat, 322, 2956-2968 (2010); *Impact factor: 2.683*
5. D. Serbezeanu, T. Vlad-Bubulac, C. Hamciuc, **F. Doroftei**
Synthesis and characterization of new phosphorus-containing poly(ester imides)
High Performance Polymers, 22, 916-929 (2010); *Impact factor: 1.584*
6. 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); *Impact factor: 1.955*
7. 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); *Impact factor: 1.204*
8. 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); *Impact factor: 1.584*

9. 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); *Impact factor: 4.191*

10. 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); *Impact factor: 3.824*

11. 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); *Impact factor: 0.389*

12. 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); *Impact factor: 1.46*

13. 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); *Impact factor: 1.354*

14. C. Racles, I. Stoica, **F. Doroftei**, V. Cozan

A simple method for the preparation of colloidal polymer-supported silver nanoparticles

Journal of Nanoparticle Research, 13 (12), pp. 6971-6980 (2011); *Impact factor: 2.009*

15. 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); *Impact factor: 0.638*

16. M. Alexandru, M. Cazacu, **F. Doroftei**, M. Ignat, D. Timpu, C.V. Grigoras, B.C. Simionescu

On the morphology and potential application of polydimethylsiloxane-silica-titania composites

Express Polymer Letters, 5 (2), pp. 188-196 (2011); *Impact factor: 2.875*

17. E.S. Dragan, M.M. Lazar, M.V. Dinu, **F. Doroftei**

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); *Impact factor: 8.355*

18. G. David, M. Cristea, C. Balhui, D. Timpu, **F. Doroftei**, B.C Simionescu,.

Effect of cross-linking methods on structure and properties of poly(ϵ -caprolactone) stabilized hydrogels containing biopolymers

Biomacromolecules, 13 (8), pp. 2263-2272 (2012); *Impact factor: 5.667*

19. B.Simionescu, I.-E. Bordianu, M. Aflori, **F. Doroftei**, M. Mares, X. Patras, A. Nicolescu, M. Olaru

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); *Impact factor: 2.781*

20. D. Suteu, D. Bilba, M. Aflori, , **F. Doroftei**, G. Lisa, M. Badeanu, T. Malutan

The seashell wastes as biosorbent for reactive dye removal from textile effluents

Clean - Soil, Air, Water, 40 (2), pp. 198-205 (2012); *Impact factor: 1.512*

21. 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); *Impact factor: 1.755*

22. M. Mihai, F. Bucatariu, **F. Doroftei**

Synthesis and characterization of new hollow calcium carbonate/polyanion microspheres

Revista de Chimie, 64, 338-342 (2013); *Impact factor: 1.605*

23. 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); *Impact factor: 3.485*

24. 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);
Impact factor: 3.507

25. 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); *Impact factor: 3.413*

26. C. Racles, M. Cristea, **F. Doroftei**, M. Alexandru
All-polymer composites from two incompatible polymers
Soft Materials, 11, 421-429 (2013); *Impact factor: 0.973*

27. D. Ciolacu, **F. Doroftei**, G. Cazacu, M. Cazacu
Morphological and surface aspects of cellulose-lignin hydrogels
Cellulose Chemistry and Technology, 47, 377-386 (2013); *Impact factor: 0.857*

28. M. Mihai, V. Socoliuc, **F. Doroftei**, E.-L. Ursu, M. Aflori, L. Vekas, B.C. Simionescu
Calcium carbonate-magnetite-chondroitin sulfate composite microparticles with enhanced pH stability and superparamagnetic properties
Crystal Growth and Design, 13 (8), pp. 3535-3545 (2013); *Impact factor: 4.153*

29. M. Drobeta, M. Aflori, I. Stoica, **F. Doroftei**
Surface characterization of amine functionalized PET films after collagen immobilization
Revue Roumaine de Chimie, 58,203-207(2013); *Impact factor: 0.395*

30. **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); *Impact factor: 5.479*

31. A. Durdureanu-Angheluta, C. Mihasan, **F. Doroftei**, A. Dascalu, L. Ursu, M. Velegrakis, M. Pinteala
Formation by laser ablation in liquid (LAL) and characterization of citric-coated iron oxide nanoparticles
Revue Roumaine de Chimie, 59, 2, 151-159 (2014); *Impact factor: 0.395*
32. P.P. Dorneanu, A. Airinei, N. Olaru, M. Homocianu, V. Nica, **F. Doroftei**
Preparation and characterization of NiO, ZnO and NiO-ZnO composite nanofibers by electrospinning method
Materials Chemistry and Physics, 148, 3, 1029-1035 (2014); *Impact factor: 2.781*
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 acid conjugates associated with nanomagnetic particles and their cytotoxic effect on cancer cells,
Journal of Biomedical Nanotechnology, 10, 131-142 (2014); *Impact factor: 5.068*
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); *Impact factor: 6.732*
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); *Impact factor: 4.153*
36. L. Cianga, A.-D. Bendrea, N. Fifere, L.E. Nita, **F. Doroftei**, Ag. Didem, M. Selec, S. Timur, I. Cianga
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); *Impact factor: 3.049*

37. C. Croitoru, S. Patachia, **F. Doroftei**, E. Parparita, C. Vasile
Ionic liquids influence on the surface properties of electron beam irradiated wood ;;
Applied Surface Science, 314, 956-966 (2014); *Impact factor: 5.155*
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); *Impact factor: 6.044*
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); *Impact factor: 5.16*
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); *Impact factor: 1.959*
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); *Impact factor: 1.584*
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); *Impact factor: 1.794*
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); *Impact factor: 4.213*
44. E. Manaila, M. D. Stelescu, **F. Doroftei**

Polymeric composites based on natural rubber and hemp fibers;

Iranian Polymer Journal, 24, 135-148 (2015); *Impact factor: 1.707*

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); *Impact factor: 1.21*

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); *Impact factor: 3.355*

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); *Impact factor: 1.327*

48. A. Irimia, E. Csiszar, M. Dobromir, **F. Doroftei**, C. Vasile

Enzyme-assisted modification of cellulose/chitin fibers with NIPAAm

Turkish Journal of Chemistry, 39,5, 1089-1101 (2015); *Impact factor: 1.0*

49. I. A. Turin-Moleavin, **F. Doroftei**, A. Coroaba, D. Peptanariu, M. Pinteala, A. Salic, M. Barboiu

Dynamic constitutional frameworks (DCF) as nanovectors for cellular delivery of DNA;

Organic and Biomolecular Chemistry, 13, 9005-9011 (2015); *Impact factor: 3.49*

50. 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); *Impact factor: 2.162*

51. I. Bunia, V. Socoliuc, L. Vekas, **F. Doroftei**, C. Varganici, A. Coroaba, B. C. Simionescu, M. Mihai

Superparamagnetic Composites Based on Ionic Resin Beads/CaCO₃/Magnetite

A Chemistry European Journal, 22,50,18036-18044 (2016); *Impact factor: 5.16*

52. E. Butnaru, R. N. Darie, Nita, T. Zaharescu, T. Balaes, C. Tanase, G. Hitruc, **F. Doroftei**, C. Vasile
Gamma irradiation assisted fungal degradation of the polypropylene/biomass composites
Radiation Physics and Chemistry, 125, 134-144 (2016); *Impact factor: 1.984*
53. A. Irimia, G. E. Ioanid, T. Zaharescu, A. Coroabă, **F. Doroftei**, A. Safrany, C. Vasile
Comparative study on gamma irradiation and cold plasma pretreatment for a cellulosic substrate modification with phenolic compounds
Radiation Physics and Chemistry, vol. 30, 52-61 (2016); *Impact factor: 1.984*
54. E. S. Dragan, D. F. Apopei Loghin, A. I. Cocarta, **F. Doroftei**
Multi-stimuli-responsive semi-IPN cryogels with native and anionic potato starch entrapped in poly(N,N-dimethylaminoethyl methacrylate) matrix and their potential in drug delivery
Reactive and Functional Polymers, 105, 66-77 (2016); *Impact factor: 3.074*
55. L. Marin, D. Ailincăi, M. Calin, D. Stan, C. A. Constantinescu, L. Ursu, **F. Doroftei**, M. Pinteala, B. C. Simionescu, M. Barboiu
Dynameric frameworks for DNA transfection
ACS Biomaterials Science and Engineering, 2, 104- 111 (2016); *Impact factor: 4.511*
56. M. Mihai, **F. Doroftei**, A.L. Vasiliu, I. Bunia
CaCO₃/Ion exchanger composites as sorbents for dyes
Revue Roumaine de Chimie, 62(6-7), 499-504 (2017); *Impact factor: 0.395*
57. M. Mihai, S. Racovita, A. L. Vasiliu, **F. Doroftei**, C. Barbu-Mic, S. Schwartz, C. Steinbach, F. Simon
Autotemplate microcapsules of CaCO₃/pectin and nonstoichiometric complexes as sustained tetracycline hydrochloride delivery carriers
ACS Applied Materials and Interfaces, 9, 37264-37278 (2017); *Impact factor: 8.456*
58. M. Constantin, S. M. Bucatariu, **F. Doroftei**, G. Fundueanu
Smart composite materials based on chitosan microspheres embedded in thermosensitive hydrogel for controlled delivery of drugs
Carbohydrate Polymers, 157, 493-502 (2017); *Impact factor: 6.044*

59. E. L. Ursu, **F. Doroftei**, D. Peptanariu, M. Pinteala, A. Rotaru
DNA-assisted decoration of single-walled carbon nanotubes with gold nanoparticles for applications in surface-enhanced Raman scattering imaging of cells
Journal of Nanoparticle Research, 19, Article 181/1-9 (2017); Impact factor: 2.009
60. A. Irimia, G. E. Ioanid, T. Zaharescu, A. Coroaba, **F. Doroftei**, A. Safrany, C. Vasile
Comparative study on gamma irradiation and cold plasma pretreatment for a cellulosic substrate modification with phenolic compounds
Radiation Physics and Chemistry, 130, 52-61 (2017); Impact factor: 2.366
61. M. Mares, A.C. Bostanaru, A. Kolecka, **F. Doroftei**, [T. Boekhout](#)
Recurrent urinary tract infection associated with Trichosporon asahii biofilm
Mycoses, 60, 81-81 (2017); Impact factor: 3.065
62. E. I. Muresan, D. Lutic, M. Drobota, A. Coroaba, **F. Doroftei**, M. Pinteala
Multimodal porous zirconium silicate microspheres: Synthesis, characterization and application as catalyst in the ring opening reaction of epichlorohydrin with acrylic acid
Applied Catalysis A: General, 556, 29-40 (2018); Impact factor: 4.63
63. G. Balan, I. Rosca, E. L. Ursu, **F. Doroftei**, A. C. Bostanaru, E. Hnatiuc, V. Nastasa, V. Sandru, G. Stefanescu,
A. Trifan, M. Mares
Plasma-activated water: a new and effective alternative for duodenoscope reprocessing
Infection and Drug Resistance, 11, 727-733 (2018); Impact factor: 3.0
64. A. Arvinte, I. A. Crudu, **F. Doroftei**, D. Timpu, M. Pinteala
Electrochemical codeposition of silvergold nanoparticles on CNT-based electrode and their performance in electroanalysis of dopamine
Journal of Electroanalytical Chemistry, 829, 184-193 (2018); Impact factor: 3.218
65. A. M. Resmerita, A. Coroaba, R. Darie, **F. Doroftei**, I. Spiridon, B. C. Simionescu, P. Navard
Erosion as a possible mechanism for the decrease of size of plastic pieces floating in oceans
Marine Pollution Bulletin, 127, 387-395 (2018); Impact factor: 3.782

66. M. D. Stelescu, A. Airinei, E. Manaila, G. Craciun, N. Fifere, C. Varganici, D. Pamfil, **F. Doroftei**
Effects of electron beam irradiation on the mechanical, thermal and surface properties of some EPDM/butyl rubber composites
Polymers, 10, Article 1206/1-21 (2018); Impact factor: 3.164
67. I. Gradinaru, L. Ignat, **F. Doroftei**, M. E. Ignat, M. E. Antohe
Researches regarding the improvement of different dental contemporary composite materials structure
Revista de Chimie, 69, 1774-1778 (2018); Impact factor: 1.605
68. I. A. Dascalu, L. Ignat, M. E. Ignat, **F. Doroftei**, K. Belhacene, R. Froidevaux, M. Pinteala
Reusable biocatalyst by pepsin immobilization on functionalized magnetic nanoparticles
Revue Roumaine de Chimie, 63, 685-695 (2018); Impact factor: 0.395
69. A. Corciova, B. Ivanescu, C. Tuchilus, A. Fifere, **F. Doroftei**, A. L. Lungoci, N. Marangoci, C. Mircea
Biosynthesis of silver nanoparticles (AgNPs) using Tilia Cordata flowers extracts and evaluation of some biological activities
Environmental Engineering and Management Journal, 17, 12, 2957-2968 (2018); Impact factor: 1.186
70. M. Mares, V. R. Moroti-Constantinescu, L. Voroneanu, **F. Doroftei**, A. Covic, O. A. Mederle
Invasive pulmonary infection due to Thermoascus Crustaceus in a kidney transplant recipient
Infection and Drug Resistance, 12, 1929-1934 (2019); Impact factor: 3.0
71. E. I. Muresan, G. Rusu, A. Danila, M. Drobot, **F. Doroftei**, C. D. Radu
Improving the properties of the polyester fabrics by grafting with 3-chloro-2-hydroxypropyl acrylate
Journal of Engineered Fibers and Fabrics, 14, 1-9 (2019); Impact factor: 0.474
72. G. G. Balan, I. Rosca, E. L. Ursu, A. Fifere, C. D. Varganici, **F. Doroftei**, I. A. Turin-Moleavin, V. Sandru, G. Constantinescu, D. Timofte, G. Stefanescu, A. Trifan, C. V. Sfarti
Duodenoscope-associated infections beyond the elevator channel: Alternative causes for difficult reprocessing
Molecules, 24, Article 2343/1-13 (2019); Impact factor: 3.06

73. M. Aflori, M. Butnaru, B. M. Tihauan, **F. Doroftei**

Eco-friendly method for tailoring biocompatible and antimicrobial surfaces of poly-L-lactic acid

Nanomaterials, 9, Article 428/1-16 (2019); Impact factor: 4.034

74. M. D. Stelescu, A. Airinei, E. Manaila, N. Fifere, G. Craciun, C. Varganici, **F. Doroftei**

Exploring the effect of electron beam irradiation on the properties of some EPDM-flax fiber composites

Polymer Composites, 40, 315-327 (2019); Impact factor: 2.268

75. N. Horchidan, L. Padurariu, C. E. Ciomaga, L. Curecheriu, M. Airimioaei, **F. Doroftei**, F. Tufescu, L. Mitoseriu

Room temperature phase superposition as origin of enhanced functional properties in BaTiO₃-based ceramics

Journal of the European Ceramic Society, 40, 1258- 1268 (2020); Impact factor: 4.495

National and European projects in the last years:

1.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
2.High performance multifunctional polymeric materials for medicine, pharmacy, microelectronics, storage of energy/informations,environmental protection: CNCSIS Platform	Member of the research team	2006-2008
3.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
4.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
5.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
6.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
7.Biologically inspired system for engineered structural and functional entities. PN-II-ID-PCCE-2011-2-0067	Member of the research team	2012-2015

8.Bionanoconjugates formation by laser ablation liquid PN-II-RU-TE-2011-3-0174	Member of the research team	2011-2014
9.Functional DNA Nanostructures-Gold Nanoparticles for Targeted Gene Therapy Purposes(DNAnanoGold) PN-II-RU-TE-2014-4-1444	Member of the research team	2014-2017
10.Hollow microcapsules based on calcium carbonate and pH-sensitive polymers as advanced drug delivery systems PN-II-RU-TE-2014-4-1433	Member of the research team	2014-2017
11.Multifunctional dynamic hydrogels with tuned morphology for biomedical applications PN-II-RU-TE-2014-4-2314	Member of the research team	2014-2017
12. New coordinated porous polymers with variable sized organic ligands for gas storage, POC E, ID P_37_707, MySMIS: 104810	Member of the research team	2017-2020
13.Mimicking living matter mechanisms by five-dimensional chemistry, 5D-nanoP, PN-III-P4-ID-PCCF-2016-0050	Member of the research team	2018-present