

Personal information

First name(s) / Surname(s) **Florica Manea**

Official address(es)

Telephone(s)

Fax(es)

E-mail

Nationality

Date of birth

Gender

Work experience

Dates 2015-present

Occupation or position held **Full Professor**

Main activities and responsibilities Education and research in environmental engineering field, unconventional technologies for water/wastewater treatment based on electrochemical and photochemical unitary processes, sustainable management of water resources

Name and address of employer Politehnica University of Timisoara, Faculty of Industrial Chemistry and Environmental Engineering, Victoriei Sq. no. 2, Timișoara, Romania

Dates 2008 - 2015

Occupation or position held **Associate Professor**

Main activities and responsibilities Education and research in environmental engineering field, unconventional technologies for pollutants degradation which involves electro(photo)chemical and amperometric/voltammetric sensing processes for environmental monitoring, clinical analysis, pharmaceutical and food compounds

Name and address of employer Politehnica University of Timisoara, Faculty of Industrial Chemistry and Environmental Engineering, Victoriei Sq. no. 2, Timișoara, Romania

Dates 2006-2008

Occupation or position held **Lecturer**

Main activities and responsibilities Education and research in environmental engineering field, electrochemical processes applied in water treatment and amperometric detection of organic pollutants from water

Name and address of employer Politehnica University of Timisoara, Faculty of Industrial Chemistry and Environmental Engineering, Victoriei Sq. no. 2, Timișoara, Romania

Dates 1999 - 2006

Occupation or position held **Professor Assistant**

Main activities and responsibilities Education and research in environmental engineering field, electrochemical processes applied in water treatment and amperometric detection of organic pollutants from water

Name and address of employer Politehnica University of Timisoara, Faculty of Industrial Chemistry and Environmental Engineering, Victoriei Sq.no. 2, Timișoara, Romania

Dates 1996 - 1999

Occupation or position held **Research Assistant**

Main activities and responsibilities Fundamental research in electrochemical field

Name and address of employer National Institute for Research and Development in Electrochemistry and Condensed Matter Timisoara, Romania

Education and training

Dates 2015

Title of qualification awarded Habilitated certificate

Principal subjects/occupational skills covered PhD supervising in environmental engineering

Name and type of organisation providing education and training "Gheorge Asachi" Technical University of Iasi

Dates 2001 – 2005

Title of qualification awarded PhD in Chemistry

Principal subjects/occupational skills covered Amperometric/voltammetric sensors for water quality monitoring

Name and type of organisation providing education and training West University of Timisoara, Faculty of Chemistry, Biology, Geography

Dates 1995 – 1996

Title of qualification awarded Master diploma in chemical engineering field, Clean Process Technologies

Principal subjects/occupational skills covered

Name and type of organisation providing education and training Politehnica University of Timisoara, Faculty of Industrial Chemistry and Environmental Engineering

Dates 1990 – 1995

Title of qualification awarded Engineer in chemical field, inorganic chemical technologies

Principal subjects/occupational skills covered

Name and type of organisation providing education and training Politehnica University of Timisoara, Faculty of Industrial Chemistry and Environmental Engineering

Personal skills and competences

Mother tongue(s) Romanian

Other language(s)

Self-assessment

European level (*)**Understanding****Speaking****Writing**

Listening

Reading

Spoken interaction

Spoken production

English

C2

C2

C2

C2

C2

French

A1

A2

A1

A1

A2

Social skills and competences

Team work developed by participating in research activities, ability to adapt to different culture and religion acquired by national and international collaborations; good communication skill gained through both teaching and by research as mentor for PhD and Postdoc students.

Organisational skills and competences

Experience in project management gained as team manager or research member in various research and education projects

Experience in improvement of research and educational logistics, also gained in research and education projects

Technical skills and competences**Research/Development fields:**

- Water/wastewater treatment processes;
- Electrochemical sensors for environmental, food and health application.;
- Advanced combined oxidation processes;
- Nano-improved advanced technologies for environmental application

Research and education programs**1. Scientific papers: 222**

- ISI Thomson-Reuters ranked journals: **98**
 - articles in journal and proceedings of other indexed international databases, ISI Proceedings: **50**
 - articles/studies published in volumes of international scientific meetings in the country and abroad: **38**
 - articles/studies published in volumes of national scientific meetings: **16**
 - in volumes of national scientific meetings: **20**
- Total number of citations **768 and Hirsch index- 15.**

2. Books/chapter books: 15

- international chapter books: **9**
- national books: **6**

3. Research-development projects, research contracts as manager/scientific responsible: 10:

- international grants/projects: **1**
- national grants/projects: **4**
- other research/development projects: **5**

4. International cooperation programs (Socrates-Erasmus): 5**-National research/development projects :**

PNII-Ideas, no. 165/2011, Nano-enhanced electrochemical green technology for advanced integrated water treatment and quality control, 2011-2014;

PNII-PCCA, no. 60/2012, "Integrated system for reducing environmental and human – related impacts and risks in the water use cycle– WATUSER, 2012-2016;

PNII 32-125, Technical-decisional support for sustainable management of water-STEDIWAT, 2008-2009;

PNII 72-156, Using some zeolitic materials functionalized cu TiO2 nanocrystals for wastewater treatment envisaging their recycling-NANO-ZEOREZID;

CEEX-ET 2973, Smart sensors for wastewater quality monitoring, 2005-2007.

-International projects

24 RO-CH-RSRP/01.01.2013, ISERZO_142210/1, Impact of waste and pollutants on environment and climate: Collaborative research study of the wastewater discharge impact in the BEGA-TIMIS river sub-basin (Romania), 2013-2014(Romanian - Swiss cooperation).

- Erasmus European programs –Curricular development at Bachelor and Master level:
51388-IC-5-2001-1-RO-ERASMUS-EPS-1 „Management of chemical investigation in environmental protection”
51388-IC-1-2005-RO-ERASMUS-MODUC 6 ”MASS -“ Management and security assessment for sustainable environment”

Other competences **External specialization stages:**
2001-2004-Delft University of Technology, The Netherlands

Visiting Professor stages:

1. 2011 (01-30.06)-Delft University of Technology, The Netherlands
2. 2013 (15-10.06)-University of Sassari, Italy

A. Member of associations, referent for international scientific journal/conferences :

- Member in management committee of Romania for COST (European Cooperation in Science and Technology) WATER2020 - CONCEIVING WASTEWATER TREATMENT IN 2020-Energetic, environmental and economic challenges (ES1202) (<http://www.water2020.eu/organization/mc-members>)
- Member of ARA (Romanian Water Association)-member in CTS (Technical-Scientific Council)
- Member of ISE (International Society of Electrochemistry);
- Member of Romanian Society of Chemistry, National Society of Electrochemistry;
- Member of ACMV (Association for Multidisciplinary Research from West Part of Romania);
- Member of BENA (Balkan Environmental Association);
- i. Member of the organizing committee on International Conference ECOIMPULS organized by Romanian-German Foundation AQUADEMICA, together with Politehnica University of Timisoara and Aquatim SA –water regional operator since 2012 (www.eco-impuls.ro).
- ii. Member of Editorial Board for: Annals of the Academy of Romanian Scientists Series on Chemistry and Chemical Bulletin of Politehnica University of Timisoara;
- iii. Member of Scientific Committee of International Conferences: International Conference on Environmental Engineering and Management (ICEEM) since 2012; Water Pollution 2017
- iv. Scientific reviewer for the ISI ranked journals: Electrochimica Acta; Sensors and Actuators:B-Chemical; Talanta; Central European Journal of Chemistry; Environmental Science and Technology; Industrial & Engineering Chemistry Research; Microporous and Mesoporous Materials; International Journal of Environmental Analytical Chemistry, Analytica Chimica Acta; Journal of Molecular Structure; Journal of Chemical Technology & Biotechnology; Materials Research Bulletin, Environmental Engineering and Management Journal;
- v. Scientific reviewer for Conferences: Environmental Management and Engineering (EME 2011) from Calgary, AB, Canada 04-06 July 2011 and 2nd International Water Association Specialized Conference on Ecotechnologies for Wastewater Treatment 23-25 June, 2014, Verona, Italy.

B. Participating in internal, national, international evaluation

- Expert evaluator of national and international projects: UEFISCDI, Romania-France bilateral programme, Romania-South Africa bilateral programme, STW's Partnership Dutch international programme; Natural Sciences and Engineering Research Council (NSERC) from Canada
- Scientific reviewer for PhD thesis assessment at “Gheorghe Asachi” Technical University of Iasi, Politehnica University of Timisoara;
- Short term expert for thematic workshops organized within POSDRU/159/1.5/S/137070 project

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