



Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **Maria Harja**
Address(es) 14B, Constantin Gane, 700645, Iasi, Romania
Telephone(s) Mobile: 40722597497
E-mail maria_harja06@yahoo.com
Nationality Romana
Date of birth 06.12.1965
Gender Female

Desired employment / Occupational field

Work experience

Dates 09/1990 - 07/1993; 09/1993 – 09/1997; 10/1997 -2013; 2013-2020; 2020 – present
Occupation or position held Adjunct assistant; Assistant; Lecturer; Associate Professor Professor
Name and address of employer „Gheorghe Asachi” Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, Prof. dr. doc. D. Mangeron Street no. 73, 700050, Iasi (Romania)
Type of business or sector
Main activities and responsibilities

EDUCATION

Courses:
Solid-fluid non-catalytic processes
Inorganic products engineering
Conventional and advanced oxide materials
Building materials technology
Inorganic Products
Solid-fluid heterogeneous non-catalytic processes
Modeling and design of chemical reactors;
Reactor design
Chemical Engineering Reactions
Fertilizers Technology
Technology of inorganic salts
Inorganic binders
Chemistry in power plants
Inorganic composite materials;
Dental cements;
Biocomposites;
Engineering non-catalytic processes
Integrated Pollution Prevention and Control

Name and address of employer	„Gheorghe Asachi” Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, Prof. dr. doc. D. Mangeron Street no. 73, 700050, Iasi (Romania)
Type of business or sector	Education
Education and training	
Dates	2016
Title of qualification awarded	Habilitation in Chemical Engineering, no. 3980/07.06.2016
Principal subjects/occupational skills covered	Title: Advanced capitalization of the fly ash to obtain new materials
Name and type of organization providing education and training	“Gheorghe Asachi” Technical University of Iasi
Level in national or international classification	specialization
Dates	2019
Title of qualification awarded	Quality, Ethics and Academic Integrity
Principal subjects/occupational skills covered	copy-right, Ethics in academic paper
Name and type of organization providing education and training	“Gheorghe Asachi” Technical University of Iasi
Level in national or international classification	specialization
Dates	2014
Title of qualification awarded	The evaluator for VET and training programs/ Certificate series, no. 00298917 / 5.9.2014
Principal subjects/occupational skills covered	Improvement training for professionals involved in adult Presentation of the methodology for evaluation committees, monitoring, examination, etc.
Name and type of organization providing education and training	SC Aprendis Iași
Level in national or international classification	specialization
Dates	2013
Title of qualification awarded	Blended- learning and modern educational technologies for higher education , Certificate Series B, no. 0002831/2013
Principal subjects/occupational skills covered	Postgraduate program of training and continuing professional development in the field: Computers and Information Technology New communication technologies and information / content writing modern to be attractive to students of higher technical education.
Name and type of organization providing education and training	Technical University of Cluj Napoca
Level in national or international classification	Specialization
Dates	2011
Title of qualification awarded	Trainer
Principal subjects/occupational skills covered	Preparing and carrying of training, application of special methods and techniques of training, training marketing, Organization of programs for training, Evaluation, review and quality assurance training programs and internships
Name and type of organization providing education and training	SC RODIS UNIVERS SRL

Level in national or international classification	Specialization
Dates	2010
Title of qualification awarded	Manager Project
Principal subjects/occupational skills covered	Ensuring compliance with contractual provisions of project management implementation, identification and risk analysis, Operational resourcing, Team work orientation to achieve the objectives
Name and type of organization providing education and training	SC EURO PERSONAL SRL
Level in national or international classification	Specialization
Dates	2008-2009
Title of qualification awarded	Master in Science, Environmental Management
Principal subjects/occupational skills covered	Ecology and Environmental, Methods and techniques for environmental impact, Integrated environmental assessment, Risk management, Environmental policies and strategies
Name and type of organization providing education and training	„Gheorghe Asachi” Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, Prof. dr. doc. D. Mangeron Street no. 73, 700050, Iasi (Romania)
Level in national or international classification	Master studies
Dates	1990-1999
Title of qualification awarded	PhD in Chemistry
Principal subjects/occupational skills covered	Modeling and design of chemical processes, Environmental protection
Name and type of organisation providing education and training	Polytechnic Institute Iasi, now Technical University „Gheorghe Asachi” Iasi, Romania
Level in national or international classification	PhD Studies
Dates	1985-1990
Title of qualification awarded	Engineer, Inorganic Chemistry
Principal subjects/occupational skills covered	Analytical Chemistry, Descriptive Geometry and Drawing, Bio-inorganic Chemistry, Mechanical Engineering of Chemical Equipment -Project Designs, Material Science, Processes Automation in Chemical Industry, Instrumental Methods in Analytical Chemistry, Transfer Phenomena and Equipments in Chemical Industry, Processes Automation in Chemical Industry, Inorganic Products Technology, Non-conventional Technologies for Energy Conversion, Environmental Protection Technology.
Name and type of organization providing education and training	Polytechnic Institute Iași („Gheorghe Asachi” Technical University of Iași), Romania, Faculty of Industrial Chemistry
Level in national or international classification	Engineering studies

Personal skills and competences

Mother tongue(s)

Romanian

Other language(s)

English, French

Self-assessment

European level (*)

French

English

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B1	Independent user	B1	Independent user	A2	Independent user	A2	Independent user	B1	Independent user
B2	Independent user	C1	Independent user	B1	Independent user	B2	Independent user	B2	Independent user

(*) [Common European Framework of Reference for Languages](http://www.cedefop.europa.eu)

Social skills and competences	<ul style="list-style-type: none"> • I have ability to communicate in difficult situation, problem solving skills, ethical behavior, sociable • I have strong sense of multiculturalism, self-management & professionalism; • Ability to adapt to multicultural environments • Team spirit, obtained through participation in diverse projects • Communication skills, gained through teaching at the undergraduate, graduate level and vocational education and training (VET).
Organizational skills and competences	<ul style="list-style-type: none"> - Able to work in team and independently including planning & executing activities with minimum supervision - Able to organize tasks in a team situation and able to motivate colleagues & meet deadlines. - Various small skills that i can share with people in group - I have also the wish to learn new knowledge from everyone - Leadership skills; experience obtained by supervision of master's and doctoral theses, and by guiding and steering the work of early stage researchers
Technical skills and competences	<ul style="list-style-type: none"> - Able to work on scientific reports independently - Able to prepare technical reports - Able to prepare a plan & write concept paper, project document etc - Able to monitor & evaluate project activities - Able to work on social research & support implementation of programs
Computer skills and competences	<ul style="list-style-type: none"> - Able to converse with various software & computer programs (word, excel, power point, Adobe, internet facilities, web designing, database management) - I have also various formal University trainings on the same field - Blended- learning and modern educational technologies for higher education
Other skills and competences	Availability to work long hours, responsibility, high capacity of work, punctuality
Artistic skills and competences	<ul style="list-style-type: none"> -Writing poems - Reading & sharing - Gardening
Other skills and competences	Sports handball
Driving license	B

Additional information

24 books

- 13 courses in CNCSIS recognized publishing
- 2 book chapters in Environmental Chemistry
- 3 chapter of the book in the international publisher
- 1 course for students
- 2 laboratory guides (both first author) published in CNCSIS recognized publishing
- 1 laboratory guides published locally
- 2 laboratory guides published on the web

194 articles published

- **99 articles published in ISI journals**
- **66 articles published in journals indexed in databases**
- **36 articles published in journals indexed in databases (including 6 first author or author of correspondence)**
- **49 articles published in proceedings of scientific meetings indexed in databases**
- **145 works communicated or poster at national and international conferences**
- **556 citations without self-citation in Scopus and 513 in Web of science**

Hirsch index 20

25 Grants and Research contract, from which 6 as Director

- **International Grant Programme Capacities 2 - Module III**, bilateral cooperation and Leonardo daVinci "Launching of Sector Alliance for Training & Apprenticeship of Health Care and Food Supplements salespersons' H-CARE , 2014-2016; Erasmus+ project; 2019-2021 Horizont 2020 project
- National Grants 9

- 7 research contracts with companies (6 as director)

Scopus Author ID: 23004906900

<http://www.ch.tuiasi.ro/cv/ic/harjamarja/>

<https://www.mendeley.com/profiles/maria-harja/>

<http://orcid.org/0000-0003-0152-0748>

<https://publons.com/author/1212743/harja-maria#profile>

<http://www.researcherid.com/rid/P-3293-2017>

<https://sciprofiles.com/profile/391732>

<https://www.webofscience.com/wos/author/record/226373>

Books

Harja M., Istrati L. and Smocot R., *Technology of Inorganic Binder*, CERMI Scientific Technique and Didactic Publishing House, Iasi, **2003**, ISBN 973-667-004-x, 280 pages.

Harja M., Ciobanu M. G.; *Inorganic Composite Materials*; MATRIX ROM Publishing House, Bucharest, **2004**, ISBN 973-685-701-8, 194 pages.

Istrati L., **Harja M.**, *Biotechnology in Environment*, Technical – Info Chisinau Publishing, Republica Moldova, **2005**, ISBN 9975-63-147-7, 265 pages.

Harja M., Balasanian I., *Chemical Thermoenergetic*, Ecozone Publishing House, Iasi, **2006**, ISBN 973-7645-29-4, 269 pages.

Petrescu St., **Harja M.**, *Chemical Reactor for Eterogen Systems*, Venus Publishing House, **2006**, ISBN: 973-756-044-2; ISBN: 978-973-756-044-5, 294 pages.

Ciobanu M. G., Ghenghea L.D., Carja G., **Harja M.**; *Advanced Materials – SAPO-n crystalline microporous zeolites*; CERMI Publishing House, Iasi, **2006**, ISBN-10 973-667-192-5; ISBN-13 978-973-667-192-0; 220 pages.

Rusu L., **Harja M.**, *Chemical and Biochemical Processes, I. Chemical Processes*, Ed. PIM, Iași, **2007**, p 321, ISBN 978-973-716-744-6 și ISBN 973-716-745-7.

Barbuta M., **Harja M.**, *Polymer concrete*, Ed. Politehniun, Iași, **2009**, p.186, ISBN 978-973-621-268-0.

Barbuta M., Gavrioloie C., **Harja M.** *Elements from polymeric concrete*, Ed. Politehniun, Iași, **2009**, p. 120, ISBN978-973-621-267-3

Harja M., Ciocîntă R.C., Synthesis and characterization of calcium carbonate used as filler in paper industry, Ed.Performantica, Iași, 2010, 175 p, ISBN 978-973-730-783-5

Harja M., Tataru Farmus R.-E., Modeling and Design of Chemical Reactors, Performantica, Iași, 2012, 126 p.

Harja M., Szep Al., Solid-fluid necatalitic process, Editura Ecozone, Iasi, ISBN 978-973-7645-95-1, 269 p, 2013

Barbuta M. and **Harja M.**, Current topics, concepts and research priorities in environmental chemistry, Chapter 5 - Environmental changes caused by the building materials industry, Ed. Univ. Al. I. Cuza Iași, 2012, 109-124, ISBN 978-973-703-797-8 and 978-973-703-798-5 vol. I, p

Harja M. and Barbuta M., Current topics, concepts and research priorities in environmental chemistry, Chapter 3- Pollutants from power plants and its effect, Ed. Univ Al. I Cuza Iași, ISBN 978-973-703-797-8 (general) and 978-973-703-798-5 vol. II, 45-59, 2013

Harja M., Szep A., Lazar L. Apostolescu N. Engineering of Inorganic Products – Inorganic salts, Editura Ecozone,Iasi, 2013, 209 p, ISBN 978-973-7645-93-7

Harja M., Cimpeanu S. M., Dirja M. and Bucur D., Materials Science » Metals and Nonmetals » "Zeolites - Useful Minerals", book edited by Claudia Belviso, Published: August 24, 2016 under CC BY 3.0 license. © Chapter 3 Synthesis of Zeolite from Fly Ash and their Use as Soil Amendment, DOI: 10.5772/64126

Tataru-Fărnuș R.-E., **Harja M.**, Lazăr L., Apostolescu N., Engineering of Inorganic fertilizer – hand book, Iași, Ecozone, 2017, ISBN 978-606-8625-13-3, 263 p

Harja M., Tataru-Fărnuș R.-E., Engineering of Inorganic fertilizer – notes of cours, Iași, PIM, 2019, 250p

Preparation and Properties of Ceramic Materials from Coal Fly Ash, Kotova O., Ignatiev G., Shushkov A., **Harja M.**, Broekmans M., Chapter • Jan 2020, Minerals: Structure, Properties, Methods of Investigation pp 101-107, Springer Proceedings in Earth and Environmental Sciences book series, DOI: 10.1007/978-3-030-00925-0_16, book: Complexity in Polish Phonotactics

Favier L, and **Harja M.**, TiO₂/fly ash nanocomposite for photodegradation of persistent organic pollutant, , Handbook of Nanomaterials and Nanocomposites for Energy and Environmental Applications, Editors: Oxana Vasilievna Kharissova, Leticia Myriam Torres Martínez, Boris I. Kharisov, Springer International Publishing, Switzerland ISBN - 978-3-030-36269-0; eReference ISBN 978-3-030-36268-3; Print ISBN: 978-3-030-36267-6, pp. 1-24http://doi-org-443.webvpn.fjmu.edu.cn/10.1007/978-3-030-11155-7_11-2

Harja M., Ciobanu G. (2020) Eco-friendly Nano-adsorbents for Pollutant Removal from Wastewaters. In: Kharissova O., Martínez L., Kharisov B. (eds) Handbook of Nanomaterials and Nanocomposites for Energy and Environmental Applications. Springer, Cham. https://doi.org/10.1007/978-3-030-11155-7_68-1, Springer International Publishing, Switzerland ISBN - 978-3-030-36269-0; eReference ISBN 978-3-030-36268-3; Print ISBN: 978-3-030-36267-6

Research contracts – 23

Obtaining and characterization reactivity of the calcium carbonate slurry, Grant 27637/2005 and 558/2006, A – CNCISIS;

Advanced porous materials for separation and biomedicine Grantof Romanian Academy GAR, 62/04.09.2007
Research on the electrochemical deposition of nickel and chromium on various types of steel, SC FEROMET M SRL, Piatra Neamț - 1269P/21.03.2007

Nanostructures with controlled textural organization type LDH with application in environment, Programs Partnerships, 2007-2009;
Advanced Recovery of waste from power plants in building materials, SC STIL UNU SRL, Iasi, leader Maria Harja, 2200P/18.05.2009

Physico-chemical and technological characterization of calcite lime slurry – leader Harja Maria, 248P/15.02.2010

Chemical and mineralogical characterization of raw materials used by SC. Ceramica SA Iasi, SC. Ceramica SA Iași, leader Maria Harja, 2702P/5.11.2010

Characterization of fuels used by SC. Ceramica SA Iasi, SC. Ceramica SA Iași, leader Maria Harja, 1337P/12.09.2012

Research contract-19529/10.09.2019_ New materials with glass fibers and advanced capitalization of wastes from SC Bico industries SRL_10.000 E + TVA, director Harja Maria,
Soil erosion and conservation measures: Romania – Belgium (Université de Liège - Gembloux AgroBioTech); ANCS 790/30.06.2011 and no. 589 / 2012

Leonardo da Vinci „Launching of Sector Alliance for Training & Apprenticeship of Health Care and Food Supplements Salespersons” H-CARE –2014-2016

Bilateral Relations 18 BIL/27.03.2017 – Norwegian University of Life Science, 2017
ERASMUS+ Project - Mobile youth peer mentoring application to facilitate distance mentoring guidance for youth with disabilities – MYPEERMENTOR (2017-1-TR01-KA205-039752) 2017-2019

Transfer of Norwegian experiences and good practices for the preservation of cultural heritage Programme Cultural Entrepreneurship, Cultural Heritage and Cultural Exchange, RO-CULTURA Programme, MF SEE 2014-2021, BR1- 45/2018.

Research -19529/10.09.2019_ New materials from fiber glass and advanced valorisation of wastes from SC BICO Industries SRL director Harja Maria

RO-NO-MG-2019-0286, 43/20.11.2019 - Partnership for advanced wastes capitalization with low energy consumption - Unitatea Executivă pentru Finanțarea Învățământului Superior, a Cercetării, Dezvoltării și Inovării (UEFISCDI), Fonduri NO 2014-2021 (Fond bilateral) –director Harja Maria

PED 301/2020_ Upgradarea filtrării prin biotrickling în contextul protecției atmosferei și a schimbărilor climatice, ctr. 301PED/2020, Programul PN-III-P2-2.1/ Competitivitate prin cercetare, dezvoltare și inovare (UEFISCDI), 2020-2022, 590.000 RON Conf. Soreanu Gabriela, 7 membri

Intern Project Publication” GI/P14/2021 Director Harja Maria

Contract 7335/14.10.2022_ Consultancy services in industrial research - for the project "Innovative technological project for the development of a group of AIM (Advanced Inorganic Materials) materials", SMIS 120951 financed by the Competitive Operational Program 2014-2022, Axis 1-Research, technological development and innovation (CDI) in support of economic competitiveness and business development", director Harja Maria

Guest Editor: Materials- Smart Materials in Environmental Science-

https://www.mdpi.com/journal/materials/special_issues/smart_materials_environmental_science

Guest Editor: Materials- Synthesis and Applications of Nanoparticles

https://www.mdpi.com/journal/materials/special_issues/Syn_Appl_Nanoparticles

Guest Editor: Water - Efficiency Evaluation of Water Treatment

https://www.mdpi.com/journal/water/special_issues/efficiency_evaluation_water_treatment

Editorial board position

American Journal of Chemical Engineering (AJCHE):
SCIREA Journal of Chemistry (<http://www.scirea.org/journal/Chemistry>).
SCIREA Journal of Chemical Engineering
Asian Journal of Materials Science - <https://scialert.net/eboard.php?issn=1996-3394>
Research Journal of Nanoscience and Nanotechnology <https://scialert.net/eboard.php?issn=1996-5044>
Research Journal of Environmental Sciences - <https://scialert.net/eboard.php?issn=1819-3412>
Journal of Env. Science and Tech <https://scialert.net/eboard.php?issn=1994-7887>
Algerian Journal of Environmental Science and Technology, <http://aljest.webs.com/editorial-board>
Advances in Civil and Environmental Engineering, <http://aceeg.uscip.us/EditorialBoard.aspx>
European Journal of Chemistry, Environment and Engineering Sciences
http://ejcees.eu/doku.php?id=editorial_board
Revista de Chimie - <https://revistadechimie.ro/RCBoard.asp>

Membership:

Chemical Society
International Professors Project
Chemical Process Engineers
Water Treatment Industry Group
Chemical Engineering Society
Science Publishing Group, <http://membership.sciencepublishinggroup.com/mariaharja>
American Association for Science and Technology (AASCIT),
<http://www.aascit.org/membership/mariaharja>
BA African Network for Environment <http://afn.bibalex.org/Environment/MainPart/SignUp.aspx>
The Water Network: <https://thewaternetwork.com/>
LIVE DNA network: <https://livedna.net/profile.php?dna=40.4838>
Asian Chemical Society (AChemS)
European Coatings - European network for the entire paint industry
American Society of Civil Engineers (ASCE)

10. 02.2023

Profesor.univ.dr. habil. ing. Harja Maria

Prof. dr. habil. ing.
