

# CURRICULUM VITAE

## Profesor Maria A. Gavrilăescu



### •DATE PERSONALE:

Data și locul nașterii: 17 septembrie 1956, Liteni, jud. Suceava

### •STUDII ȘI TITLURI ACADEMICE:

- absolvent al Facultății de Tehnologie Chimică-Institutului Politehnic Iași (1976-1981),
- **doctor înginer** din 1997

### •DOMENII DE COMPETENȚĂ ȘTIINȚIFICĂ:

- **ingineria proceselor chimice și biologice, cu aplicații în protecția mediului** (în particular, ingineria proceselor de remediere, tratare, epurare și control a componentelor de mediu - aer, apă, sol, afectate de fenomenul poluării; integrare, modelare și simulare)
- **biotecnologie, cu aplicații în protecția mediului** (biosorbție, bioacumulare, bioremediere etc.)
- **evaluarea și managementul riscului ecologic, ingineria securității tehnice, integrarea evaluărilor de risc ecologic, sănătate și securitate;**
- **tratarea și managementul deșeurilor solide, prevenirea și controlul integrat al poluării pentru procese, produse, servicii, producție industrială durabilă, eco-inovare, eco-proiectare, eco-tehnologii și producție curată, economie circulară, evaluări și audit de mediu,**
- **elaborarea și evaluarea materialelor științifice**

•**ALTE COMPETENȚE:** management universitar, expert în proiecte de studii doctorale și postdoctorale din fonduri structurale, expert în proiecte de dezvoltare instituțională

•**CONDUCĂTOR DE DOCTORAT** din 2002, în domeniul fundamental **Ştiințe inginerești-Inginerie chimică** și din 2009 în domeniul **Ingineria mediului**

•**TITULAR LA DISCIPLINE** specifice domeniilor de competență, la studiile de **licență, masterat, doctorat**

### •ACTIVITATEA IN COMUNITATEA ACADEMICĂ

- membru al Senatului Universității Tehnice Gheorghe Asachi din Iași (TUIASI)(din 2008)
- membru al Comisiei de calitate a Senatului Universității Tehnice Gheorghe Asachi din Iași, 2006-2007; membru al Comisiei de etică a Senatului TUIASI
- membru al conducerii Școlii Doctorale Inginerie Chimică, Facultatea de Inginerie Chimică și Protecția Mediului, 2005 – 2008, director al Școlii doctorale a Facultății și, respectiv al Consiliului de coordonare a programelor doctorale (din 2016), membru al Consiliului pentru Studiile Universitare de Doctorat (CSUD)
- secretar științific al Consiliului Facultății (2000-2004) și membru al Consiliului Facultății de Inginerie Chimică și Protecția Mediului (2000-2020)
- membru în biroul de conducere al Catedrei Ingineria și Managementul Mediului (2000-2009)
- membru în comisii de admitere, doctorat, finalizare studii (licență, master, doctorat) etc.

### •APARTENENȚA LA SOCIETĂȚI ȘTIINȚIFICE ȘI PROFESIONALE:

Academia Oamenilor de Știință din România – membru titular, Societatea Națională de Știință și Ingineria Mediului – membru fondator și vicepreședinte (2016); European Federation of Biotechnology - ca expert, secțiunea Environmental Biotechnology; Societatea Română de Bioinginerie și Biotehnologie – membru fondator (1991); Societatea Română de Inginerie Chimică, președinte al filialei Iași (1996, respectiv 2004); Organizația Academică de Ingineria Mediului și Dezvoltare Durabilă (1999); Asociația Absolvenților Facultății de Chimie Industrială; INTERMEDIUNET Romania (INRO) (2005); Federatia Europeana a Societăților de Microbiologie, FEMS (2012); Societatea Română de Chimie (2009) etc.

•**EXPERT EVALUATOR:** CNCSIS; ANSTI; CALIST; PNII; PNIII; ARACIS; CNATDCU; Comisia Europeană (FP6, FP7, Orizont 2020); European Science Foundation; Federal Ministry of Education and Research, Germania; National Science Centre, Polonia; Netherlands Organisation for Scientific Research; Latvian Council of Science. **CNATDCU** – Comisia Inginerie Chimică (2006-2011), Comisia Științele Pământului (2011-2012) - membru, **Comisia Ingineria Mediului (președinte, din 2012, Membru al Consiliului General al CNATDCU (din 2012)**

•**COLABORĂRI EXTERNE, VISITING PROFESOR:** Universitatea Bologna; Universitatea Frederico II, Napoli; Universitatea Pannonia, Ungaria; Universitatea Tehnică Viena; Universitatea Rennes, Franța; Universitatea Maribor, Slovenia; Technion, Israel; Universitatea BOKU Viena, Universitatea Twente, Olanda; Universitatea Padova; Italia; Universitatea Varese, Italia; Universitatea Tehnică Copenhaga; Universitatea Minho, Portugalia; Universitatea Tehnică Creta, Grecia; Universitatea Lund, Suedia; Universitatea Queens, Belfast; Universitatea Henry Poincaré-Nancy, Franța; Universitatea Vigo, Spania; Universitatea Almeria, Spania etc.

•**MEMBRU AL COLECTIVULUI DE REDACTIE AL REVISTELOR:** Bioprocess Engineering, Buletinul Institutului Politehnic Iași, Secțiunea Chimie și Inginerie Chimică, European Journal of Science and Theology, The Open Biotechnology Journal, Blue Biotechnology, Study & Research Chemistry & Chemical Engineering, Biotechnology, Food Industry, Journal of Engineering Studies and Research, Journal of Environmental Engineering and Landscape Management, Journal of Applied Sciences in Environmental Sanitation (J.ASES), referent științific pentru jurnale ISI, membru în comitetul științific al peste 60 conferințe naționale și internaționale

•**EDITOR COORDONATOR al ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL**, inclus în baze de date internaționale: CABI; Chemical Abstracts Service/SciFinder (ACS) (din 2002); EBSCO Database (din 2002); EVISA; ICAAP; Index Copernicus Master Journal List; MedSci; ProQuest (din 2002); CNCSIS - categoria A; Web of Science® (WOS) (H=31); Science Citation Index Expanded™; SCIMAGO, SCOPUS (din 2002), Journal Citation Reports® (IF=0,885/2009;... IF=1,185/2018); •**EDITOR COORDONATOR al PROCEDIA – ENVIRONMENTAL SCIENCE, ENGINEERING AND MANAGEMENT**, inclus în Scopus; •**EDITOR al ANNALS OF THE ACADEMY OF ROMANIAN SCIENTISTS**, Series on Physics and Chemistry; •**EDITOR ASOCIAȚ al PEER J** (inclus in WOS), •**EDITOR al jurnalului WATER** (secțiunea Water and Wastewater Treatment) (inclus in WOS)

•**PREMII:** Premiul "Nicolae Teclu" al Academiei Române, secția Chimie, 1995; Best Paper Award – acordat de Editura Springer, Germania; Best Poster Award – Global Conference on Global Warming GCGW-12, Istanbul; Diploma la Saloane de Inventii; Diploma de Excelență în Cercetare a Senatului Universității Tehnice „Gheorghe Asachi”, 2007; 2014, prezentări biografice și nominalizări în lucrări de tip Who's Who

### •PORTOFOLIU ȘTIINȚIFIC:

- Lucrări științifice - 763 titluri: 22 cărți; 22 capitole în volume de editor (Wiley, SignPost, Springer, Elsevier), 9 manuale (tipărite și în format electronic), 315 lucrări publicate (164 în jurnale ISI și 16 în ISI Proceedings); 53 conferințe și keynote lectures; 282 comunicări la manifestări științifice naționale și internaționale, 47 rapoarte de cercetare; 12 brevete de inventie (9 incluse in WEB of Science DERWENT Innovation Index)+ 1 cerere de brevet la OSIM
- Citări ale articolelor publicate (Web of Science): peste 4100 (din care peste 3500 fără autocitări), indice Hirsch, H=30 (WOS); H=31 (Scopus); H=39 (Google)
- Granturi și contracte de cercetare: 8 tehnologii originale; 20 contracte de cercetare cu agenții economici industriali; 29 granturi naționale (CNCSIS, PNI, PNII); 6 granturi internaționale, 21 acorduri Erasmus și Erasmus+.

Menționez că am norma didactică completă la Facultatea de Inginerie Chimică și Protecția Mediului "Cristofor Simionescu"  
Declar pe propria răspundere că datele prezentate sunt în conformitate cu realitatea.

Ianuarie 2020

Profesor MARIA GAVRILESCU

**Europass  
Curriculum Vitae**
**INFORMAȚII  
PERSONALE**

Numele și prenumele

Adresa

Telefon

Fax

E-mail

Nationalitate

**Maria GAVRILESCU**

Universitatea Tehnică "Gheorghe Asachi" din Iași,  
Bd. Prof. D. Mangeron nr. 73, 700050, IAȘI, România  
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Română


**POZITIA**

**Profesor universitar, Universitatea Tehnică "Gheorghe Asachi" din Iași, Facultatea de Inginerie Chimică și Protecția Mediului „Cristofor Simionescu”, Departamentul Ingineria și Managementul Mediului**

**EXPERIENȚA  
PROFESIONALĂ**

Perioada

**1 octombrie 2000 - prezent**

Funcția sau postul ocupat

**Profesor universitar**

Principalele activități și responsabilități

- activitate didactică la ciclurile de licență, masterat, doctorat, cursuri postuniversitare (cursuri, lucrări practice, seminarii și proiecte);
- cercetare științifică în domenii precum: *ingineria proceselor chimice și biologice, ingineria mediului, biotecnologii în protecția mediului, riscuri ecologice și pentru sănătatea umană, reducerea poluării la sursă și minimizarea pierderilor (valorificarea și managementul deșeurilor, producție industrială durabilă, eco-proiectare, prevenirea și controlul integrat al poluării)*
- director al unor granturi de cercetare la nivel național
- membru în echipele de cercetare a unor granturi la nivel național și internațional
- gestiunea și finalizarea unor proiecte de cercetare
- coordonarea activității de doctorat în domeniul Inginerie chimică (din 2002, în lichidare) și Ingineria mediului (din 2009)
- *Managing Editor/Editor-in-Chief* al revistei științifice *Environmental Engineering and Management Journal*, inclusă în baze de date internaționale de la apariție, cotată ISI din anul 2007;
- *Editor-in-chief* al revistei *Procedia-Environmental Science, Engineering and Management*, inclusă în baze de date internaționale
- Editor al *Analelor Academiei Oamenilor de Știință din Romania, Seria Științe Chimice*
- expert evaluator pentru programe naționale de cercetare lansate sub egida Ministerului Educației și Cercetării (CNCSIS, PN-I, PN-II, Calist etc.);
- expert evaluator al Comisiei Europene pentru proiecte de cercetare în programele FP7, Orizont 2020;
- membru al grupului de experti ai *European Federation of Biotechnology*, secțiunea *Environmental Biotechnology*
- referent științific a numeroase reviste de specialitate naționale și internaționale;
- organizarea și coordonarea de sesiuni științifice studențești
- coordonarea activității unor cercuri științifice studențești
- organizator al unor manifestări științifice naționale și internaționale și membru în comitetele științifice
- coordonator științific pentru proiecte de diplomă și lucrări de disertație
- membru al conducerii Școlii doctorale a Facultății de Inginerie Chimică și Protecția Mediului
- membru în biroul de conducere al Catedrei Ingineria și Managementul Mediului

	<ul style="list-style-type: none"> <li>- director al departamentului de cercetare științifică/coordonator al Centrului de Cercetare <i>Ingineria mediului și evaluarea impactului</i>, al Universitatii Tehnice „Gheorghe Asachi” din Iași, acreditat CNCSIS</li> <li>- membru al Consiliului Facultății și al Senatului Universității;</li> <li>- prodecan responsabil cu cercetarea științifică (secretar științific) al Consiliului Facultății</li> <li>- membru al Comisiei de calitate a Senatului Universității Tehnice „Gheorghe Asachi” din Iași</li> <li>- membru al Comisiei de etică a Senatului Universității Tehnice „Gheorghe Asachi” din Iași</li> <li>- membru al Comisiei pentru relații internaționale, imagine universitară și titluri onorifice a Senatului Universității Tehnice „Gheorghe Asachi” din Iași</li> <li>- referent în comisii de pregătire a doctoratului și în comisii de evaluare a tezelor de doctorat</li> <li>- membru/președinte al comisiei de susținere a examenului de licență/diplomă</li> <li>- membru în comisia de susținere a lucrărilor de disertație</li> <li>- membru în comisia de admitere a facultății</li> <li>- membru în comisii de acordare a titlului de Doctor Honoris Causa al Universității Tehnice “Gheorghe Asachi” din Iași</li> <li>- elaborarea de materiale de interes academic (pentru acreditarea, de către ARACIS a unor specializări de licență și master, pentru acreditarea de către CNATDCU a domeniului de doctorat Ingineria mediului la Universitatea Tehnică „Gheorghe Asachi” din Iași, rapoarte de cercetare etc.)</li> </ul>
Numele și adresa angajatorului	Universitatea Tehnică <i>Gheorghe Asachi</i> din Iași, Romania (Facultatea de Inginerie Chimică și Protecția Mediului, Departamentul de Ingineria și Managementul Mediului), Str. Prof.dr.docent Dimitrie Mangeron nr. 73, 700050, Iași, Romania
Perioada	<b>1 Octombrie 1998 - 30 Septembrie 2000</b>
Funcția sau postul ocupat	<b>Conferențiar universitar</b>
Principalele activități și responsabilități	<ul style="list-style-type: none"> <li>- activitate didactică la ciclurile de licență și masterat, cursuri postuniversitare (cursuri, lucrări practice, seminarii și proiecte);</li> <li>- cercetare științifică în domenii precum: ingineria proceselor chimice și biologice, ingineria mediului, biotecnologii în protecția mediului,</li> <li>- director al unor granturi de cercetare la nivel național</li> <li>- gestiunea unor proiecte de cercetare</li> <li>- expert evaluator pentru programe naționale de cercetare lansate sub egida Ministerului Educației și Cercetării (CNCSIS, ANSTI);</li> <li>- organizarea și coordonarea de sesiuni științifice studențești</li> <li>- coordonarea activității unor cercuri științifice studențești</li> <li>- organizator al unor manifestări științifice naționale și internaționale și membru în comitetele științifice</li> <li>- coordonator științific pentru proiecte de diplomă și lucrări de disertație (cursuri de zi și învățământ deschis la distanță)</li> <li>- membru în biroul de conducere al Catedrei Ingineria și Managementul Mediului</li> <li>- director al departamentului de cercetare științifică al Centrului de Cercetare <i>Ingineria mediului și evaluarea impactului</i>, al Universității Tehnice „Gheorghe Asachi” din Iași (acreditat CNCSIS)</li> <li>- membru al comisiilor de susținere a examenului de diplomă și a lucrărilor de disertație (cursuri de zi și învățământ deschis la distanță)</li> <li>- membru în comisia de admitere a facultății</li> <li>- referent în comisii de pregătire a doctoratului și în comisii de evaluare a tezelor de doctorat</li> <li>- referent științific pentru reviste de specialitate naționale și internaționale;</li> </ul>
Numele și adresa angajatorului	Universitatea Tehnică <i>“Gheorghe Asachi”</i> din Iași, Romania (Facultatea de Inginerie Chimică, Catedra Ingineria Mediului), Bd. Mangeron 71, 700050, Iasi, Romania
Perioada	<b>1 martie 1996- 30 septembrie1998</b>
Funcția sau postul ocupat	<b>Cercetător științific principal grad II</b> (echivalent conferențiar universitar)
Principalele activități și responsabilități	<ul style="list-style-type: none"> <li>- responsabil al colectivului de cercetare <i>Ingineria proceselor biotecnologice</i></li> </ul>

	<ul style="list-style-type: none"> <li>- coordonarea și elaborarea de studii și cercetări la scară laborator, pilot, industrială în domeniul biotehnologiei și bioingineriei proceselor de biosinteză a antibioticelor, (bio)separări, (bio)purificări, bioreactoare și echipamente neconvenționale</li> <li>- gestiunea și finalizarea unor proiecte de cercetare</li> <li>- microproducție</li> <li>- elaborarea și susținerea publică a tezei de doctorat: Studiul curgerii sistemelor terogene în reactoare de tipul gaz-lift (iunie, 1997);</li> <li>- studii, cercetări și asistență tehnică în cadrul unor contracte de cercetare privind implementarea unor noi tehnologii de biosinteză (eritromicină, penicilina, vitamina B12, streptomicina);</li> <li>- activități de predare ca profesor asociat la Facultatea de Inginerie Chimică din cadrul Universității Tehnice Gheorghe Asachi din Iași, Catedra Ingineria Mediului.</li> </ul> <p>Numele și adresa angajatorului Institutul de Cercetări Chimico-Farmaceutice, București – Centrul de Cercetări pentru Antibiotice Iași, șos. Valea Lupului nr. 1, Iași, Romania</p>
Perioada	<b>1 noiembrie 1990 – 29 februarie 1996</b>
Funcția sau postul ocupat	<b>Cercetător științific principal grad III</b> (echivalent șef lucrări)
Principalele activități și responsabilități	<ul style="list-style-type: none"> <li>- responsabil al colectivului <i>Ingineria proceselor biotehnologice</i></li> <li>- coordonarea și desfășurarea de studii și cercetări fundamentale și aplicative în domeniul fenomenelor de transfer de impuls, căldură și masă în bioreactoare la scară laborator, pilot și industrială;</li> <li>- elaborarea și managementul unor proiecte de cercetare</li> <li>- studii privind performanțele (timp de amestecare, dispersia fazelor, transferul oxigenului, consum specific de putere etc.) în sisteme de contactare convenționale și, respectiv, neconvenționale, mici consumatoare de energie (coloane cu barbotare, contactoare gaz-lift) în sisteme eterogene (gaz-lichid-solid) aplicate la biosinteză unor antibiotice</li> <li>- sisteme de agitare mici consumatoare de energie pentru sisteme eterogene (gaz-lichid-solid)</li> <li>- transpunerea la scară a bioreactoarelor și bioprocесelor</li> <li>- studii privind reologia lichidelor de biosinteză;</li> <li>- studii, cercetări și asistență tehnică în cadrul unor contracte de cercetare privind implementarea unor noi tehnologii de biosinteză (eritromicină, penicilina, vitamina B12, streptomicina);</li> <li>- studii și cercetări pentru îmbunătățirea randamentelor de biosinteză și separare/purificare prin selecție la nivel de laborator și dozarea unor ingrediente în lichidele de biosinteză.</li> </ul>
Numele și adresa angajatorului	Institutul de Cercetări Chimico-Farmaceutice, București – Centrul de Cercetări pentru Antibiotice Iași, șos. Valea Lupului nr. 1, Iași, Romania
Perioada	<b>1 iunie 1988 - 31 octombrie 1990</b>
Funcția sau postul ocupat	<b>Cercetător științific</b> (echivalent asistent universitar)
Principalele activități și responsabilități	<ul style="list-style-type: none"> <li>- responsabil al colectivului de cercetare, <i>Ingineria proceselor biotehnologice</i></li> <li>- gestiunea și finalizarea unor proiecte de cercetare</li> <li>- microproducție</li> <li>- cercetare în domeniul fenomenelor de transfer de impuls, masă și căldură în sisteme eterogene, neneutroniene, de tipul lichidelor de biosinteză a antibioticelor</li> <li>- studiul sistemelor de agitare convenționale și neconvenționale pentru bioreactoarele aplicate în biosinteză antibioticelor</li> <li>- studiul corelației dintre necesarul de oxigen al microorganismelor aerobe și conișurile de cultivare la scară laborator, pilot și industrială</li> <li>- studii și cercetări în cadrul unor contracte de cercetare privind optimizarea tehnologiilor de fabricare a unor rifamicine de biosinteză și semisinteză (scară laborator, pilot, industrială);</li> <li>- studii și cercetări în cadrul unor contracte de cercetare privind optimizarea tehnologiei de biosinteză a Penicilinelui G (la scară pilot și industrială).</li> </ul>
Numele și adresa angajatorului	Institutul de Cercetări Chimico-Farmaceutice, București – Centrul de Cercetări pentru Antibiotice Iași, șos. Valea Lupului nr. 1, Iași, Romania
Perioada	<b>4 august 1983 – 31 mai 1988</b>
Funcția sau postul ocupat	<b>Inginer chimist</b>

Principalele activități și responsabilități	- cercetare în cadrul colectivului "Ingineria proceselor biotecnologice" - metode de determinare a necesarului de oxigen al unor microorganisme aerobe aplicate în biosinteză unor antibiotice în relație cu nivelul oxigenului dizolvat - metode de caracterizare și comparare a performanțelor bioreactoarelor - studii și cercetări în cadrul unor contracte de cercetare privind îmbunătățirea și optimizarea tehnologiilor de fabricare a unor rifamicine de biosinteză și semisinteză (biosinteză, izolare-purificare, contionare, studii de stabilitate chimică), la scară laborator, pilot, industrială.
Numele și adresa angajatorului	Institutul de Cercetări Chimico-Farmaceutice, București – Centrul de Cercetări pentru Antibiotice Iași, șos. Valea Lupului nr. 1, Iași, Romania
Perioada	<b>1981-1983</b>
Funcția sau postul ocupat	<b>Inginer chimist</b>
Principalele activități și responsabilități	Sef formație de lucru
Numele și adresa angajatorului	Combinatul de Fibre Artificiale Brăila și Combinatul de Fibre Sintetice Iași, Romania
<b>EDUCAȚIE, FORMARE, PREDARE, SCHIMBURI DE EXPERIENȚĂ</b>	
Perioada	<b>2009</b> - Training international privind unele concepte în știință și ingineria mediului, Iasi, România, 1-4 Iunie 2009
Activități desfășurate, titlu/calificare obținută	Formare în ingineria și managementul de mediu, estimarea și managementul risurilor de mediu și pentru sănătatea umană/Certificat de absolvire
Numele și tipul organizației	Michigan State University, Institute of International Health and Fogarty International Center Program on Environmental Health, Training and Research in Environmental Health in the Balkans (TREHB)
Perioada	<b>2005</b> - <i>E-learning: formation des formateurs</i>
Activități desfășurate, titlu/calificare obținută	Training în procesul de învățare pe platforma de activități de e-learning (programare în C++, utilizare Dreamweaver, Microsoft Frontpage)
Numele și tipul organizației	<i>Universitatea Henry Poincaré Nancy</i> , Asociația Universităților Francofone și Universitatea Tehnică Gheorghe Asachi din Iași
Perioada	<b>2005</b> - <i>Eco-certificare în turism</i>
Activități desfășurate, titlu/calificare obținută	Curs postuniversitar privind certificarea în ecoturism/ Certificat de participare
Numele și tipul organizației	Departamentul de Ingineria și Managementul Mediului – Universitatea Tehnică Gheorghe Asachi din Iași, Centrul pentru Cercetare în Turism Bucovina, Câmpulung Moldovenesc și International Institute of Industrial Environment Economics, Lund, Suedia
Perioada	<b>2004</b> – <i>Gestionarea fondurilor europene</i>
Activități desfășurate, titlu/calificare obținută	Curs intensiv / Certificat de participare
Numele și tipul organizației	Școala de Proiecte APART, București și Universitatea Tehnică Gheorghe Asachi din Iași
Perioada	<b>2004</b> – <i>Turism durabil. Certificare și ecoetichetare</i>
Activități desfășurate, titlu/calificare obținută	Curs postuniversitar / Certificat de participare
Numele și tipul organizației	Departamentul Ingineria și Managementul Mediului – Universitatea Tehnică Gheorghe Asachi din Iași și International Institute of Industrial Environment Economics, Lund, Sweden
Perioada	<b>2004</b> – <i>Ecoproiectare și Inovare de Produs</i>

Activități desfășurate, titlu/calificare obținută	Curs postuniversitar / Certificat de participare
Numele și tipul organizației	Departamentul Ingineria și Managementul Mediului – Universitatea Tehnică <i>Gheorghe Asachi</i> din Iași și International Institute of Industrial Environment Economics, Lund, Sweden
Perioada	<b>2004 – Managementul deșeurilor</b>
Activități desfășurate, titlu/calificare obținută	Curs postuniversitar / Certificat de participare
Numele și tipul organizației	Departamentul Ingineria și Managementul Mediului – Universitatea Tehnică <i>Gheorghe Asachi</i> din Iași și International Institute of Industrial Environment Economics, Lund, Sweden
Perioada	<b>2004 – Auditor pentru sisteme de management al mediului</b> , ISO 140001-1996
Activități desfășurate, titlu/calificare obținută	Curs intensiv/Certificat de Auditor intern pentru sisteme de management de mediu conform ISO 14001:1996, Nr. 0034, 2004.
Numele și tipul organizației	Camera de Comerț Iași, Romania și SGS Belgia-Romania
Perioada	<b>2003 - How to Apply with Success in the Sixth Framework Programme (FP6)</b>
Activități desfășurate, titlu/calificare obținută	Curs intensiv (în limba engleză)/ Certificat de participare
Numele și tipul organizației	Ministerul Educației - UEFISCSU, Romania și Hyperion Ltd. Irlanda
Perioada	<b>2003 – Schimb de experiență privind curricula universitară</b>
Activități desfășurate, titlu/calificare obținută	Vizită de documentare și schimb de experiență
Numele și tipul organizației	International Institute of Industrial Environment Economics, Lund, Sweden
Perioada	<b>iunie-iulie 2000</b>
Activități desfășurate, titlu/calificare obținută	Concurs public pentru ocuparea postului de <b>profesor universitar</b>
Numele și tipul organizației	Universitatea Tehnică <i>Gheorghe Asachi</i> din Iași, Romania (Facultatea de Inginerie Chimică și Protecția Mediului, Departamentul de Ingineria și Managementul Mediului), Str. Prof.dr.docent Dimitrie Mangeron nr. 73, 700050, Iași, Romania
Perioada	<b>mai - iunie 1998</b>
Activități desfășurate, titlu/calificare obținută	Concurs public pentru ocupare postului de <b>conferențiar universitar</b>
Numele și tipul organizației	Universitatea Tehnică <i>Gheorghe Asachi</i> din Iași, Romania (Facultatea de Inginerie Chimică, Catedra Ingineria Mediului), Bd. Mangeron 71, 700050, Iasi, Romania
Perioada	<b>1989 – 1997 - Doctorand</b>
Activități desfășurate, titlu/calificare obținută	Elaborarea și susținerea tezei de doctorat în domeniul Inginerie chimică tema Studiul curgerii sistemelor eterogene în reactoare de tipul gaz-lift, sub conducerea științifică a Prof. dr. doc. ing. Radu Z. Tudose, Membru correspondent al Academiei Române (susținută public în iunie, 1997), Titlul de doctor acordat prin Ordin al Ministrului Educației, diploma de doctor inginer, Seria P, Nr. 0006233 din 10/12/1997 (972)
Numele și tipul organizației	Universitatea Tehnică <i>Gheorghe Asachi</i> din Iași
Perioada	<b>Februarie1996</b>
Activități desfășurate, titlu/calificare obținută	Concurs/atestat pe post de <b>cercetător științific principal grad II</b>
Numele și tipul organizației	Institutul de Cercetări Chimico-Farmaceutice, București, Romania

Perioada Activități desfășurate, titlu/calificare obținută Numele și tipul organizației	<b>Octombrie 1990</b> Concurs/atestat pe post de <b>cercetător științific principal grad III</b> Institutul de Cercetări Chimico-Farmaceutice, București, Romania																							
Perioada Activități desfășurate, titlu/calificare obținută Numele și tipul organizației	<b>Iunie 1988</b> Concurs/atestat pe post de <b>cercetător științific</b> Institutul de Cercetări Chimico-Farmaceutice, București, Romania																							
Perioada Activități desfășurate, titlu/calificare obținută Numele și tipul organizației	<b>1987-1988</b> , Curs de specializare postuniversitară în programarea minicalculatoarelor (FELIX-Mini) Programare in limbajul Cobol, Gestiunea bazelor de date/ Certificat de absolvire - Programarea minicalculatoarelor, Seria A, Nr. 02270, din 01/08/1988 (5) Centrul Teritorial de Calcul Electronic Iași, Romania																							
Perioada Activități desfășurate, titlu/calificare obținută Numele și tipul organizației	<b>1986 – 1987</b> , Curs postuniversitar intensiv de limba engleză Limba și literatura engleză/ Diploma de absolvire, Seria B, Nr. 1206, din 20/04/1988 (206) Universitatea "Al.I. Cuza" din Iasi, Facultatea de Filologie, Romania																							
Perioada Activități desfășurate, titlu/calificare obținută Numele și tipul organizației	<b>1986 - 1987 – Curs intensive de Analiza valorii</b> Certificat de participare Institutul Politehnic Gheorghe Asachi din Iași, Facultatea de Chimie Industrială, Iași, Romania.																							
Perioada Activități desfășurate, titlu/calificare obținută Numele și tipul organizației	<b>1986 - 1987 - Curs intensive de Optimizare a proceselor chimice</b> Certificat de participare Institutul Politehnic Gheorghe Asachi din Iași, Facultatea de Chimie Industrială, Iași, Romania.																							
Perioada Activități desfășurate, titlu/calificare obținută Numele și tipul organizației	<b>1977 - 1981</b> Cursuri de lungă durată și diploma de <b>Inginer chimist</b> , specialitatea <i>Tehnologie chimică organică</i> Institutul Politehnic Gheorghe Asachi din Iași, Facultatea de Tehnologie Chimică, Iași, Romania																							
<b>APITUDINI, COMPETENȚE PERSONALE</b>  Limba maternă Alte limbi  Autoevaluare <b>European level (*)</b>  <b>Engleză</b>  <b>Franceza</b>	<b>Română</b>																							
	<table border="1"> <thead> <tr> <th colspan="2">Înțelegere</th> <th colspan="2">Vorbire</th> <th colspan="2">Scriere</th> </tr> <tr> <th>Ascultare</th> <th>Citire</th> <th>Participare la conversație</th> <th>Discurs oral</th> <th colspan="2">Exprimare scrisă</th> </tr> </thead> <tbody> <tr> <td>C2</td> <td>Utilizator experimentat</td> <td>C2</td> <td>Utilizator experimentat</td> <td>C2</td> <td>Utilizator experimentat</td> </tr> <tr> <td>B2</td> <td>Utilizator independent</td> <td>B2</td> <td>Utilizator independent</td> <td>B1</td> <td>Utilizator independent</td> </tr> </tbody> </table>	Înțelegere		Vorbire		Scriere		Ascultare	Citire	Participare la conversație	Discurs oral	Exprimare scrisă		C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat	B2	Utilizator independent	B2	Utilizator independent	B1
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**Germana**

A2	Utilizator elementar	A2	Utilizator elementar	A2	Utilizator elementar	A1	Utilizator elementar	A2	Utilizator elementar
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(\*) Nivelul Cadrului European Comun de Referință Pentru Limbi Străine

**COMPETENȚE ȘI ABILITĂȚI SOCIALE**

Experiență în munca în echipă, în colaborarea cu alte organizații, în relații interculturale, mediator în situații conflictuale, implicare în acțiuni ale tinerilor studenți, activități de predare și instruire

**COMPETENȚE ȘI APTITUDINI ȘTIINȚIFICE, TEHNICE/DE CERCETARE ȘI ORGANIZATORICE**

Experiență în predare, instruire teoretică și practică, managementul proiectelor/contractelor și al echipei, în motivarea colaboratorilor, diplomație în relațiile interpersonale:

Contextul în care au fost dobândite aceste abilități:

- **ACTIVITĂȚI DE PREDARE, INSTRUIRE ȘI FORMARE** (*licență, masterat, doctorat, cursuri postuniversitare*):

**Studii de licență:**

Cursuri și aplicații (seminare, laboratoare, proiecte):

**Bazele sistemelor tehnologice**, specializările Tehnologia și biotecnologia protecției mediului/Ingineria și protecția mediului în industrie (domeniul de studii: Ingineria Mediului) și Inginerie biochimică (domeniul de studii: Inginerie Chimică)

**Analiza și sinteza proceselor tehnologice**, specializarea Tehnologia și biotecnologia protecției mediului/Ingineria și protecția mediului în industrie (domeniul de studii: Ingineria Mediului)

**Surse, procese și produse poluante**, specializarea Tehnologia și biotecnologia protecției mediului/Ingineria și protecția mediului în industrie (domeniul de studii: Ingineria Mediului)

**Ingineria proceselor și utilaje specifice în ingineria mediului**, specializarea Tehnologia și biotecnologia protecției mediului/Ingineria și protecția mediului în industrie (domeniul de studii: Ingineria Mediului)

**Ingineria proceselor chimice și biologice**, specializarea Tehnologia și biotecnologia protecției mediului/Ingineria și protecția mediului în industrie (domeniul de studii: Ingineria Mediului)

**Prevenirea și controlul integrat al poluării**, la anul V, domeniul Ingineria Mediului, specialitatea Tehnologia și biotecnologia protecției mediului (actual Ingineria și protecția mediului în industrie)

**Studii de masterat:**

Cursuri și aplicații (seminarii, proiecte):

- **Modelarea și simularea proceselor pentru protecția mediului**, specializarea Managementul mediului, cursuri zi și învățământ deschis la distanță, în limba română (domeniul Ingineria Mediului)

- **Estimarea și managementul riscului**, specializarea Managementul mediului, cursuri zi și învățământ deschis la distanță, în limba română (domeniul Ingineria Mediului)

- **Reducerea poluării la sursă și minimizarea deșeurilor**, specializarea Managementul mediului, cursuri zi și învățământ deschis la distanță, în limba română (domeniul Ingineria Mediului)

- **Legislație privind protecția mediului**, specializarea Managementul proiectelor, cursuri zi în limba română, în cadrul Departamentului Programe al Universității Tehnice Gheorghe Asachi din Iași

- **Producție industrială durabilă**, specializarea Managementul mediului, cursuri zi și învățământ deschis la distanță, în limba română (domeniul Ingineria Mediului)

- **Sustainable Industrial Production**, specializarea Environmental Management and Sustainable Energy, cursuri zi, în limba engleză (domeniul Ingineria Mediului)

**Studii de doctorat:**

Cursuri și aplicații (seminarii, proiecte):

- **Elaborarea, evaluarea și susținerea lucrărilor științifice**, în cadrul Scolii Doctorale a Facultății de Inginerie Chimică și Protecția mediului - Universitatea Tehnică "Gheorghe Asachi" din Iași, Facultatea de Inginerie Chimică și Protecția Mediului și a altor facultăți din cadrul universității
- **Elaborarea materialelor științifice și deontologia cercetării**, pentru doctoranzii Facultății de Inginerie Chimică și Protecția Mediului "Cristofor Simionescu" (din anul universitar 2017-2018)
- **Etica și integritatea academică**, pentru doctoranzii Scolii Doctorale a Universității Tehnice "Gheorghe Asachi" din Iași (din anul universitar 2018-2019)

#### **Studii postuniversitare:**

- **Proiectarea și implementarea sistemelor de sănătate și securitate în muncă**
- **Accidente majore și dezastre ecologice**  
Curs postuniversitar la compania Aerostar, Bacău
- **Accidente și dezastre ecologice majore**, Programul postuniversitar de formare și dezvoltare profesională continuă: *Managementul și protecția mediului în contextul dezvoltării durabile* (2013-2014), Universitatea Tehnică "Gheorghe Asachi" din Iași, Departamentul Ingineria și Managementul Mediului
- **Influența protecției mediului asupra sănătății populației**
  - Sănătatea și securitatea în muncă
  - Evaluarea și managementul riscului
  - Managementul sănătății și securității în muncăCurs postuniversitar, *Proiectarea și implementarea sistemului de management al sănătății și securității ocupaționale*
- **ORGANIZAREA DE EVENIMENTE ȘI MANIFESTĂRI ȘTIINȚIFICE LA NIVEL LOCAL, NAȚIONAL ȘI INTERNAȚIONAL, MEMBRU ÎN COMITETE DE ORGANIZARE ȘI ȘTIINȚIFICE:**

Peste 60 de acțiuni descrise în Lista activităților științifice, atașată)

#### **ACTIVITĂȚI ÎN COMUNITATEA ACADEMICĂ**

- organizarea și coordonarea de sesiuni științifice studențești
- coordonarea activității unor cercuri științifice studențești
- director, membru al conducerii Scolii doctorale a Facultății de Inginerie Chimică și Protecția Mediului a Universității Tehnice "Gheorghe Asachi" din Iași
- director al Consiliului de coordonare a programelor doctorale din Facultatea de Inginerie Chimică și Protecția Mediului "Cristofor Simionescu"
- membru al Consiliului pentru Studiile Universitare de Doctorat (CSUD)
- membru în biroul de conducere al Catedrei Ingineria și Managementul Mediului
- membru al Consiliului Facultății și al Senatului Universității;
- prodecan responsabil cu cercetarea științifică al Consiliului Facultății
- membru al Comisiei de calitate a Senatului Universității Tehnice "Gheorghe Asachi" membru al Comisiei de etică a Senatului Universității Tehnice "Gheorghe Asachi" din Iași
- membru al Comisiei pentru relații internaționale, imagine universitară și titluri onorifice a Senatului Universității Tehnice „Gheorghe Asachi” din Iași
- secretar al Comisiei pentru cercetare - dezvoltare, antreprenoriat și parteneriat public privat al Senatului Universității Tehnice „Gheorghe Asachi” din Iași
- elaborarea de materiale de interes academic (pentru acreditarea, de către ARACIS a unor specializări de licență și master, pentru acreditarea de către CNATDCU, a scolii doctorale de Ingineria mediului la Universitatea Tehnică „Gheorghe Asachi” din Iași, rapoarte de cercetare etc.)
- membru al Consiliului General al Consiliului Național de Atestare a Titlurilor, Diplomelor și Certificatelor Universitare (CNATDCU), președinte al Comisiei de specialitate *Ingineria mediului (Ordin MEC nr. 5644 din 5.09. 2012; Ordin MECS nr.3019 11.01.2016)*
- membru al Comisiei de specialitate *Ştiințele pământului*, Panelul 1: *Matematica și științele naturii*, a Consiliului Național de Atestare a Titlurilor, Diplomelor și Certificatelor Universitare (CNATDCU) (*Ordin MEC nr. 3980 din 25 martie 2011*)
- membru al comisiei de specialitate *Inginerie Chimică, Ingineria Materialelor și Ingineria Produselor Alimentare* a Consiliului Național de Atestare a Titlurilor, Diplomelor și Certificatelor Universitare (CNATDCU) (*Ordin MEC nr. 3904/10.05.2006*)

- **COMPETENȚE ȘTIINȚIFICE ȘI DIRECȚII DE CERCETARE**

**Ingineria proceselor chimice și biologice (cu aplicații în protecția mediului și conservarea resurselor)**

- *fenomene de transfer de proprietate în procesele chimice, biochimice și biologice:* curgerea sistemelor polifazice în contactoare cu agitare mecanica și pneumatica; reologia lichidelor biologice; transferul de masă în vase cu amestecare, contactoare pneumatice, utilaje de extractie, filtrare, centrifugare; transferul de căldură în procese de biosinteză și izolare-purificare a produselor de biosinteză;
- *migrarea și comportarea poluanților persistenti anorganici și organici* (metale grele, poluanți organici persistenti POPs, produse de igienă, coloranți) în soluri și sorbenți naturali
- *bazele sistemelor tehnologice-analiza și sinteza;*
- *intensificarea proceselor de transfer în ingineria chimică, protecția mediului și biotehnologie:* sisteme performante de amestecare în contactoare cu agitare mecanică; aplicarea unor promotori statici de amestecare la scară pilot și industrială pentru intensificarea procesului de amestecare;
- *procese și operații unitare în procese chimice, biochimice și biologice,* cu aplicații în biotehnologie și protecția mediului: filtrare, centrifugare, extractie, distilare-rectificare, evaporare și cristalizare, adsorbție pe schimbatori de ioni, separare prin membrane; bioremediere, biosorbție; absorption
- *asimilarea unor sisteme tehnice, (bio)reactoare neconvenționale în procesele chimice și biochimice industriale,* eficiente din punct de vedere energetic,
- *transpunerea la scară cu aplicații în ingineria mediului*
- *modelarea și simularea proceselor chimice și biologice,* incluzând aplicații în protecția și controlul calității mediului

**Biotehnologie/Biotehnologii în protecția mediului**

- *baza științifică a ingineriei reacțiilor biochimice și biologice:* conversia masei în prezența microorganismelor și/sau enzimelor, în funcție de legile care descriu transferul de impuls, masă și căldură și de cinetica reacțiilor; manipularea tulpinilor microbiene în bioreactoare; necesarul de oxigen al microorganismelor aerobe; stabilitatea agentilor microbieni față de factorii fizico-mecanici, cu aplicații în protecția mediului; studii de echilibru, cinematic și termodinamică
- *epurarea biologică a fluxurilor gazoase și lichide conținând poluanți organici biodegradabili*
- *bioremedierea componentelor de mediu afectate de fenomenul poluării, (bio)degradarea poluanților refractari*
- *biosorbția și bioacumularea metalelor grele, a poluanților persistenti de microorganisme inactive (moarte) și viabile (drojii, fungi, bacterii), biosorbția folosind deșeuri agricole și vegetale (alge, coji de semințe, alte deșeuri vegetale)*
- *biodisponibilitatea, bioacumularea, persistența, ecotoxicitatea, fitotoxicitatea* în relație cu diverși contaminanți ai mediului

**Prevenirea și controlul integrat al poluării: practici pentru procese, produse, servicii** (reducerea poluării la sursă și managementul pierderilor, ierarhia managementului deșeurilor, managementul riscurilor, evaluarea ciclului de viață, analiza cost-beneficiu, amprente ecologice, analiza de decizie multicriterială)

**Producție industrială durabilă, Eco-inovare, Eco-proiectare, Eco-tehnologii, Producție curată, Managementul deșeurilor solide, Economie circulară**

**Evaluarea și managementul riscului, Riscuri ecologice, Riscuri pentru sănătatea umană**

**Evaluări de mediu** (atestat de Ministerul Mediului, Apelor și Pădurilor ca elaborator de Rapoarte de securitate, în contextul Directivelor Seveso)

**Elaborarea și evaluarea materialelor științifice**

**Conducător de doctorat din 2002** (până în 2011), în domeniul fundamental *Ştiințe ingineresti*, domeniul de doctorat *Inginerie chimică, 7 doctori*

**Conducător de doctorat din 2009**, în domeniul fundamental *Ştiințe ingineresti*, domeniul de doctorat *Ingineria mediului, 6 doctori și 7 doctoranzi*

**• *EXPERIENȚĂ ÎN MANAGEMENTUL PROIECTELOR/CONTRACTELOR DE CERCETARE:***

*Director/responsabil de proiect sau membru în echipa de cercetare și realizări:*

- **tehnologii originale aplicate în industrie: 8**
- **teme de cercetare cu companii industriale: 20** (10 în calitate de director sau responsabil de temă)
- **granturi naționale (CNCSIS, PNCDI-I, PNCDI-II: 29** (17 ca director de proiect)
- **granturi internaționale: 6** (în colaborare, ca membru al echipei de cercetare)

**• *COMPETENȚE ȘI EXPERIENȚĂ ÎN EVALUAREA ȘI EDITAREA MATERIALELOR ȘTIINȚIFICE***

- editor al unor jurnale științifice:

*Environmental Engineering and Management Journal* (Managing Editor 2002-2014, Editor-in-Chief, 2014-prezent)

*Procedia – Environmental Science, Engineering and Management* (Editor-in-Chief)

*Annals of the Academy of Romanian Scientists - Series on Physics and Chemistry* (Series Editor)

*Bulletin of the Polytechnic Institute of Iasi – Section Chemistry and Chemical Engineering*

*Peer J, Associate Editor*

*Water, Associate Editor*

- referent pentru reviste internaționale:

Bulletin of Iasi Polytechnic Institute, Environmental Engineering and Management Journal Iasi Polytechnic Magazine, Bioprocess Engineering, Brazilian Journal of Chemical Engineering, Cellulose Chemistry and Technology, Chemical Engineering Journal, Chemosphere, CLEAN-Water, Air, Soil, Critical Reviews in Biotechnology, Environment International, Environmental Science and Technology, Environmental Technology, Energy, Journal of Environmental Management, Journal of Hazardous Materials, Clean-Soil Air, Water, Journal of Environmental Engineering and Landscape Management, Journal of Cleaner Production, Geoderma, International Journal of Environment and Pollution, Journal of Hazardous Materials, Bioprocess and Biosystems Engineering, Arid Land Research and Management, Universal Journal of Education and General Studies, Current Biotechnology, Journal of Research in International Business and Management, Separation Science and Technology, Resources, Conservation & Recycling, Desalination and Water Treatment, Water, Air, & Soil Pollution, Bioresource Technology, Critical Reviews in Environmental Science and Technology, Peer J, Water etc.

Referent de specialitate al editurii ECOZONE, Iasi, Romania

- expert:

- Consiliul Național al Cercetării Științifice în Învățământul Superior CNCSIS/UEFISCDI: 2001-2018
- Agenția Națională ANSTI: 2001-2002
- Program CALIST: 2004
- Programul National PN-II
- Membru al Registrului Expertilor al Ministerului Educației și Cercetării
- Membru al Consiliului General al Consiliului Național de Atestare a Titlurilor, Diplomelor și Certificatelor Universitare (CNATDCU) și președinte al Comisiei de specialitate *Ingineria Mediului* (**Ordin MEC nr. 5644 din 5 septembrie, 2012**)
- Membru al Comisiei de specialitate *Ştiinţele pământului*, Panelul 1: *Matematica și științele naturii*, a Consiliului Național de Atestare a Titlurilor, Diplomelor și Certificatelor Universitare (CNATDCU) (**Ordin MEC nr. 3980 din 25 martie 2011**)
- Membru al comisiei de specialitate *Inginerie Chimică, Ingineria Materialelor și Ingineria Produselor Alimentare* a Consiliului Național de Atestare a Titlurilor, Diplomelor și Certificatelor Universitare (CNATDCU) (**Ordin MEC nr. 3904/10.05.2006**)
- Expert independent al Comisiei Europene (FP6, FP7, Orizont 2020)
- Expert extern pentru evaluarea unor teze de masterat și doctorat
- Membru în comisii externe de doctorat
- Expert al Ministerului Mediului ca elaborator de Rapoarte de securitate
- Expert în cadrul a trei programe POSDRU pentru studii doctorale și două proiecte POSDRU pentru studii postdoctorale la Universitatea Tehnică Gheorghe Asachi din Iași, finanțate din Fondul Social European

• **MEMBRU AL UNOR ENTITĂȚI/ASOCIAȚII/COMISII PROFESIONALE ȘI ȘTIINȚIFICE:**

- Membru al Academiei Oamenilor de Știință din Romania
- 2002 - 2014 Managing Editor și, din 2014 **Editor-in-Chief** al **Environmental Engineering and Management Journal**, editată de Departamentul de Ingineria și Managementul Mediului – Universitatea Tehnică Gheorghe Asachi din Iași, Romania și Editura Ecozone Iași, Romania (inclus în CABI; Chemical Abstracts Service/SciFinder (ACS) (din 2002); EBSCO Database (din 2002); EVISA; ICAAP (International Consortium for Advancement of Academic Publications); Index Copernicus Journal Master List (ICV/2013=16.00); Journal Citation Reports® (IF/2018=1.185); MedSci; ProQuest (din 2002); CNCSIS (RO); Science Citation Index Expanded™ (Thomson ISI); SJR (SCImago Journal&Country Rank); SCOPUS (din 2008); Thomson ISI Master Journal List; Web of Science® (Thomson ISI) (H=31) (<http://omicron.ch.tuiasi.ro/EEMJ/>) ((cu factor de impact în Web of Science)
- 2000-2004 - **Editor** al **Buletinului Institutului Politehnic din Iași**, Secțiunea Chimie și Inginerie Chimică
- 2014 – fondator și **Editor-in-Chief** al **Procedia-Environmental Science, Engineering and Management** ([www.procedia-esem.eu](http://www.procedia-esem.eu)) (indexată în Scopus)
- 2014 – **Series Editor** al **Analelor Academiei Oamenilor de Știință din Romania – Seria Științe Fizice și Chimice** (<http://aos.ro/editura/analeleaosr/annals-on-physics-and-chemistry>)
- 2016 – **Editor asociat** al **Peer J** (<https://peerj.com/MGAV/>) (cu factor de impact în Web of Science) (cu factor de impact în Web of Science)
- 2017 – **Editor** al **Water**, secțiunea Water and Wastewater Treatment (cu factor de impact în Web of Science)
- 2012 - Membru al Colectivului de redacție al revistei **Factori și procese pedogenetice din zona temperată / Soil Forming Factors and Processes in the Temperate Region**, editată de Universitatea Al.I. Cuza din Iasi
- 2011 - Membru al Editorial Advisory Board pentru jurnalul **Scientific Study & Research-Chemistry & Chemical Engineering, Biotechnology, Food Industry**, publicat de Universitatea Vasile Alecsandri din Bacău, România (indexată Web of Science)
- 2011 - Membru al Editorial Advisory Board pentru **Journal of Engineering Studies and Research (JESR)**, publicat de Universitatea Vasile Alecsandri din Bacau, Romania
- 2011 - Membru al Colectivului de redacție al revistei **Journal of Applied Sciences in Environmental Sanitation (JASES)**, editată de Department of Environmental Engineering, Sepuluh Nopember Institute of Technology, Surabaya, Indonezia, and Indonesian Society of Sanitary and Environmental Engineers
- 2009 – Membru în **Editorial Advisory Board** al **European Journal of Science and Theology**, publicat de Editura EcoZone, Iași, Romania (indexată în Scopus)
- 2009 – Membru în **Editorial Advisory Board** al **Journal of Environmental Engineering and Landscape Management** (cu factor de impact în Web of Science)
- 2009 – Membru al Comitetului Editorial al **International Journal of Conservation Science** (indexată Web of Science)
- 2007-2014 – membru în **Editorial Scientific Board** al **The Open Biotechnology Journal**, publicat de Bentham Science Publishers
- 1997-2000 - Membru în **Editorial Advisory Board** al **Bioprocess Engineering** journal, publicat de **Springer Verlag**, Berlin, Germania
- 2011 – membru fondator al **Societății Naționale de Știință și Ingineria Mediului**, Cluj-Napoca, Romania (<http://snsim.ro/>), vicepresedinte din 2015
- 2012 – membru al **Federatiei Europene a Societăților de Microbiologie**, FEMS
- 2009 - Membru al **Societății Române de Chimie**
- 2008 – membru al **Societății Europene de Membrane**
- 2006 – Membru al **International Organization for Biotechnology and Bioengineering**
- 2006 – Membru al **European Federation of Biotechnology** și **membru în Experts Board al Environmental Biotechnology Section** (2011)
- 2005 – Membru al **INTERMEDIUNET** România (INRO)
- 2002 – Membru al **Asociației Absolvenților Facultății de Chimie Industrială, Iași, România**
- 1999 – Membru al **Organizației Academice pentru Ingineria Mediului și Dezvoltare Durabilă**, Iași, Romania
- 1996 – Membru al **Societății Române de Inginerie Chimică**
- 1991 – Membru fondator al **Societății Române de Bioginerie and Biotehnologie**

**• PROFESOR INVITAT ȘI PROGRAME INTERUNIVERSITARE****- profesor invitat**

2019 - Vienna University of Technology, Austria  
2019 - University *Frederico II*, Napoli, Italy  
2018 - Technical University of Crete, Greece  
2017 - University of Natural Resources and Life Sciences, Vienna, Austria  
2016 – University of Minho, Portugal  
2015 - University of Natural Resources and Life Sciences, Vienna, Austria  
2015 - Technical University of Crete, Greece  
2014 - University Rennes, France  
2014 - University of Maribor, Slovenia  
2014 - University of Applied Sciences, Northwestern Switzerland, Muttenz, Switzerland  
2013 - University Insubria, Varese, Italy  
2013 - University *Alma Mater Studiorum* Bologna, Italy  
2013 - Vienna University of Technology, Vienna, Austria  
2012 - University *Frederico II*, Naples, Italy  
2012 - University *Alma Mater Studiorum*, Bologna, Italy  
2012 - Vienna University of Technology, Vienna, Austria  
2011 - University *Frederico II*, Napoli, Italy  
2011 - TECHNION - Israel Institute of Technology, Haifa, Israel  
2011 - University *Alma Mater Studiorum* Bologna, Italy  
2011 - University of Padova, Italy  
2011 - Minho University, Braga, Portugal  
2010 - University of Twente, The Netherlands  
2010 - Vienna University of Technology, Austria  
2009 - *Pannon University*, Veszprem, Hungary  
2007 - *Danish University of Technology*, 2007, Copenhagen, Denmark  
2007 - *Vienna University of Technology*, Institute fur Verfahrenstechnik, Umwelttechnik und Techn. Biowissenschaften, August 2007  
2006 - *University Minho*, Portugal  
2005 - *University Minho*, Portugal, 2005 Lund University, *International Institute for Industrial Environmental Economics*  
2004 - Henry Poincaré University, Nancy1, European Summer School: *Human Environment: Energy, Forests, Health and Society*, September 3-10  
2004 - Lund University, *International Institute for Industrial Environmental Economics*

**- acorduri bilaterale și programe Erasmus și Erasmus+**

2011-2014	University Maribor, Slovenia
2011-2014	University of Study dell'Insubria, Varese, Italy,
2010-2013	University of Study, <i>Federico II</i> , Naples, Italy,
2010-2013	<i>Alma Mater Studiorum</i> University of Study, Bologna, Italy,
2009-2014	Twente University Netherlands,
2008-2013	University Minho, Portugal,
2014-2021	University Minho, Portugal,
2014-2021	University of Natural Resources and Life Sciences, Austria
2014-2021	Technical University of Crete, Grecia
2014-2021	Universidade do Minho, Portugalia
2014-2021	University of Maribor, Slovenia
2014-2021	Hacettepe University Ankara, Turcia
2014-2021	Karabuk University, Turcia
2014-2017	Twente University Netherlands,
2014-2021	University of Study, <i>Federico II</i> , Naples, Italy,
2014-2021	<i>Alma Mater Studiorum</i> University of Study, Bologna, Italy
2017-2020	University of Applied Sciences, Northwestern Switzerland, Muttenz, Switzerland – <b>Swiss-European Mobility Programme</b>
2019-2021	Twente University Netherlands,
2018-2021	University Vigo, Spain
2019-2021	University Almeria, Spain
2019-2021	National Technical University, Athene, Grecia

**• PREMII ȘI NOMINALIZĂRI****- Premii:**

- Premiul "Nicolae Teclu" al Academiei Române, Secția Chimie, acordat pentru grupul de lucrări "Studiul fenomenelor de transfer în sisteme polidisperse cu aplicații la bioreactoare", pentru anul 1995;
- **Diplomă de excelență și Medalia „Inventica”** 2008, acordate de Societatea Inventatorilor din România și Institutul Național de Inventică, Iași, la Salonul Internațional Jubiliar al Cercetării, Invențiilor și Transferului Tehnologic, „Inventica 2008”, Iasi, Romania;
- **Diploma pentru excelență în cercetare și Medalia „Gheorghe Asachi”** acordate de Senatul Universității Tehnice „Gheorghe Asachi” din Iași, Romania, 2007;
- **Diploma de excelență pentru cercetare inovativă și Medalia de aur** acordată de European Exhibition of Creativity and Innovation EUROINVENT 2010, 7-9 mai, Iasi, Romania;
- **Diploma de excelență** acordată de European Exhibition of Creativity and Innovation, 2011, Iasi, Romania.
- **Diploma și Marea Premiu** al National Salon and Scientifical Books din cadrul EuroInvent 2012, European Exhibition of Creativity and Innovation, 11 mai, Iasi, Romania
- **Best Paper Award**, 2012, acordat de **Editura Springer**, pentru lucrarea științifică *Soil and groundwater cleanup: benefits and limits of emerging technologies*, publicată în jurnalul *Clean Technologies and Environmental Policy*, vol. 13, No. 2, pp. 241-268, 2011;
- **Best Poster Award**, 2012, acordat în cadrul Global Conference on Global Warming GCGW-12, 8-12 iulie, 2012, Istanbul, Turcia;
- **Diploma de Excelență** acordată pentru *Environmental Engineering and Management Journal*, în cadrul National Salon of Technical and Scientific Books, EuroInvent, Iasi, Romania, 2013.
- **Diploma de Excelență în Cercetare**, acordată de Senatul Universității Tehnice „Gheorghe Asachi” din Iași, Romania, 2014;
- **Premiul AGIR** pentru cartea *Metode de evaluare a efectelor poluării aerului cu poluanți particulați asupra sănătății copiilor*, ISBN 9786062501211, Editura MatrixRom, 2014;
- **Diploma de apreciere**, pentru *Environmental Engineering and Management Journal* și Editor-in-Chief, EuroInvent 2015, Iasi, Romania.

**- Prezentări biografice și nominalizări:**

- "2000 outstanding people of the 20th century", first edition, 1998;
- "International woman of the year" pentru intervalul 1997-2004, de către International Biographical Centre -Cambridge, Anglia.
- "WHO's WHO" in Romania, 2002; 2010; 2013
- *Women in Chemistry — Interview with Maria Gavrilescu*, publicat în ChemistryViews (Wiley), 3 May 2011, DOI: [10.1002/chemv.201000059](https://doi.org/10.1002/chemv.201000059), cu ocazia "2011 the International Year of Chemistry (IYC 2011) and the Centenary of Marie Curie's Nobel prize in Chemistry".

APTITUDINI ȘI COMPETENȚE INFORMATICE	Windows, Word, Excel, Power Point, Corel PhotoPaint, web-browsing
PERMIS DE CONDUCERE	Categoria B

INFORMATII  
SUPLIMENTARE

## PORTOFOLIU STIINTIFIC:

## a) Publicatii, conferinte, comunicari, rapoarte, brevete:

**763 titluri:**

- 22 carti (4 ca editor)
- 22 capitole in carti de editor (Wiley, Springer, Elsevier, Signpost)
- 9 manuale pentru studenti (tiparite sau in forma electronică)
- lucrari publicate: 315
  - lucrari publicate in jurnale cotate ISI – 164 si ISI Proceedings – 16
  - lucrari publicate in jurnale cu referenti si incluse in baze de date: 98
  - lucrari publicate in volume ale conferintelor, cu referenti: 37
- conferinte si keynotes: 53
- prezentari publice la evenimente stiintifice nationale si internationale (congrese, simpozioane, conferinte, workshopuri – prezentari orale si postere): 282
- rapoarte de cercetare: 47
- brevete: 12 (9 incluse in *Derwent Innovations Index*) + 1 cerere de brevet la OSIM

## b) Peste 4100 citari ale lucrariilor publicate in jurnale ISI (peste 3500 fara autocitari)

Peste 7000 citari in Google Scholar

**Hirsch index H = 30 in Web of Science, H = 31 in Scopus, H = 39 in Google Scholar**

## c) organizator/membru in comitete ale unor conferinte, workshopuri: 60

## d) Acorduri si programme Erasmus si Erasmus+ – in calitate de coordonator: 21

## e) Teme/granturi de cercetare:

- produse noi si tehnologii originale: 8
- teme/contracte de cercetare cu companii industriale: 20 (10 ca responsabil sau director de proiect, 10 ca membru al grupului de cercetare)
- granturi nationale: 29 (17 director de proiect)
  - 10 granturi CNCSSIS (6 director)
  - 6 granturi PNCDI-I (1 AGRAL, 5 CEEX, membru in echipa de cercetare)
  - 3 granturi PNCDI-II (Programul IDEI, ca director)
  - 4 granturi PNIII (2 ca director)
  - 6 granturi acordate de Ministerul Cercetarii si Tehnologiei (director)
- granturi internationale: 6 (membru al echipei de cercetare)

## ANNEXE

## Lista publicatiilor stiintifice

# PROFESSOR MARIA GAVRILESCU

## ***List of Publications***

### **Books and Chapters**

#### **2019**

1. *Bioremediation of Persistent Toxic Substances: From Conventional to New Approaches in Using Microorganisms and Plants*,  
Mihaela Roșca, Raluca-Maria Hlihor, **Maria Gavrilescu**  
In: *Microbial Technology for the Welfare of Society*, Kumar A.P. (Ed.), Springer Singapore, pp. 289-312, 2019, ISBN 978-981-13-8844-6
2. *Exploring and Exploiting the Abilities of Microorganisms, Plants and their Interactions for Environmental Bioremediation* (in Romanian: *Explorarea și exploatarea abilităților microorganismelor, plantelor și a interacțiunilor dintre acestea pentru bioremedierea mediului*)  
**Maria Gavrilescu** (coordinator), Mariana Diaconu, Laura Bulgariu, Irina Volf, Cezar Catrinescu, Camelia Smaranda, Petronele Cozma, Raluca-Maria Hlihor, Cristina Ghinea, Laura-Carmen Apostol, Elena-Diana Comănișă, Mihaela Roșca, Sebastian Ionuț Vasilică  
Editura Performantica Iași, 2019, ISBN 978 860 66 856904, 252 pags.
3. *Solid Waste Management for Circular Economy: Challenges and Opportunities in Romania – The Case Study of Iasi County*,  
Cristina Ghinea, **Maria Gavrilescu**  
In: *Towards Zero Waste. Circular Economy Boost, Waste to Resources*, Vol. 6, María-Laura Franco-García, Jorge Carlos Carpio-Aguilar, Hans Bressers, Springer International Publishing, Amsterdam, pp. 25-60, ISBN 978-3-319-92930-9, [https://doi.org/10.1007/978-3-319-92931-6\\_3](https://doi.org/10.1007/978-3-319-92931-6_3) (2019)

#### **2018**

4. *Modeling Dynamics of Pesticides In Vegetable Products and Risk Assessments on Human Health* (in Romanian: *Modelarea dinamicii pesticidelor în produse vegetale și estimarea riscurilor asupra sănătății umane*)  
Raluca Maria-Hlihor, **Maria Gavrilescu** (Editors)  
Politehnium Publishing House, 2018, ISBN 978-973-621-477-6, 205 pags.
5. *Strategies and Solutions for Eco-Innovation and Eco-Design of Processes and Products from Recyclable Materials in the Context of Circular Economy. Guide to Good Practice* (in Romanian: *Strategii și soluții pentru eco-inovarea și eco-proiectarea unor procese și produse din materiale reciclabile în contextul economiei circulare. Ghid de bune practici*)  
**Maria Gavrilescu** (Editor), Igor Cretescu, Teodor Măluțan, Adrian-Cătălin Puitel, Camelia Smaranda, Petronela Cozma, Raluca-Maria Hlihor, Isabela-Maria Simion, Diana-Elena Comănișă, Mihaela Roșca, Teofil Câmpean, Politehnium Publishing House, 2018, ISBN 978-973-621-481-3

#### **2017**

6. *Extending Production Waste Life Cycle and Energy Saving by Eco-Innovation and Eco-Design: The Case of Packaging Manufacturing*,  
**Maria Gavrilescu**, Teofil Câmpean, Dan-Alexandru Gavrilescu  
In: *Nearly zero Energy Communities, Proceedings of the Conference for Sustainable Energy (CSE) 2017*, Ion Visa, Anca Duta (Editori), Springer Proceedings in Energy, pp. 611-631, ISBN: 978-3-319-63214-8
7. *Environmental Bioremediation by Biosorption and Bioaccumulation: Current State and New Perspectives*  
Raluca-Maria Hlihor, Laura Carmen Apostol, **Maria Gavrilescu**  
In: *Enhancing Remediation of Environmental Pollutants - Biological and Non-Biological Approaches*  
Editor: N. Anjum, Springer Science+Business Media (New York), 2017, pp. 289-315, ISBN: 978-3-319-55422-8, DOI: 10.1007/978-3-319-55426-6\_14, (included in WEB of Science)
8. *Elaboration, evaluation and presentation of scientific materials. Strategies, ethics and deontology* (in Romanian: *Elaborarea, evaluarea și prezentarea materialelor științifice. Strategii, etică și deontologie*)  
**Maria Gavrilescu**  
Politehnium Publishing House, Iasi, Romania, ISBN 978-973-621-470-7, 100 pages

**2016**

**9.**

*Theoretical Predictive Air Quality Models*

**Maria Gavrilăescu**

In: *Comprehensive Analytical Chemistry, Volume 73, The Quality of Air, 1<sup>st</sup> Edition*

Editors: Miguel de la Guardia, Sergio Armenta,

Elsevier, Amsterdam, pp. 97-113, 2016, eBook ISBN 9780444636065, Print ISBN 9780444636058

DOI: 10.1016/bs.coac.2016.03.019 (**included in WEB of Science**)

**10.**

*Biosorption and Bioaccumulation, Principles and Applications in Environmental Bioremediation*

Editor: **Maria Gavrilăescu**

(includes 9 chapters, all co-authored by Maria Gavrilăescu)

Politehnium Publishing House, ISBN: 978-973-621-457-8, 350 pages

**2015**

**11.**

*Bioremediation of Heavy Metals by Microalgae*

Laura Bulgariu, **Maria Gavrilăescu**

In: *Handbook of Marine Microalgae: Biotechnology Advances*, Editor S.K. Kim, Elsevier Inc., 2015, pp. 457-469, ISBN: 978-0-12-800776-1

**2014**

**12.**

*Biomass Potential for Sustainable Environment, Biorefinery Products and Energy*

**Maria Gavrilăescu**

In: *Sustainable Energy in the Built Environment-Steps Towards nZEB*

Editor Ion Visa,

Springer International Publishing, 2014, pp. 169-194

**13.**

*Behaviour of Organic Contaminants in Soil Environment*

Camelia Smaranda, **Maria Gavrilăescu**

In: *Current Topics, Concepts and Research Priorities in Environmental Chemistry*, Editor Carmen Zaharia, Vol. III, Alexandru Ioan Cuza University Press, Iasi, Romania, 2014, pp. 83-111, ISBN 978-973-703-797-8, vol. III: ISBN 978-606-714-062-0

**14.**

*Contaminated Soils: a Guide to Sampling and Analysis*,

Editori: **Gavrilăescu M.**, Bulgariu L.

Future Science, London, 2014, ISBN: 978-1-909453-15-9, 112 pages.

**15.**

*Colloid-Mediated Transport and Fate of Contaminants in Soils*

**Maria Gavrilăescu**

In: *The Role of Colloidal Systems in Environmental Protection*, Editor Monzer Fanun,

ISBN: 9780444632838, 55 pags, 397-451. Elsevier, Amstredam, 2014

DOI: 10.1016/B978-0-444-63283-8.00017-X (**included in Web of Science**)

**16.**

*Biorefinery Systems: An Overview*

**Maria Gavrilăescu**

Cap. 15, In: *Bioenergy Research: Advances and Applications*, Editori: Gupta V., Tuohy M., Kubicek C., Saddler J., Xu F., Elsevier, ISBN-10: 0444595619, ISBN-13: 9780444595614, 23 pags, 219-241.

<http://dx.doi.org/10.1016/B978-0-444-59561-4.00014-0>

**17.**

*Key Features of Contaminated Soils*

Petronela Cozma, **Maria Gavrilăescu**

In: *Contaminated Soils: a Guide to Sampling and Analysis*, Editori: Gavrilăescu M., Bulgariu L., Future Science, London, 2014, 12 pags. 7-17, ISBN: 978-1-909453-15-9

**18.**

*Organic Compounds into the Atmosphere from various Emission Sources and their Impact on Health* (in Romanian, with an Abstract in English)

Elena-Diana Comanita, Mihaela Rosca, **Maria Gavrilăescu**

*Methods of Evaluating the Effects o Particulate Matter Air Pollution on Children's Health*, Editors: S. Iordache, D. Dunea, MatrixRom, Bucharest, Romania, 2014, ISBN 9786062501211, pp. 221-266.

**2013**

**19.**

*Static Mixing in Fermentation Processes*

**Maria Gavrilăescu**

In: *Encyclopedia of Industrial Biotechnology*, Editor Michael C. Flickinger, John Wiley & Sons, Inc., New York, USA, ISBN: 9780470054581, pp. 1-23, DOI: 10.1002/9780470054581.eib552.pub2

2013,

<http://onlinelibrary.wiley.com/doi/10.1002/9780470054581.eib552.pub2/abstract>

**2012**

**20.**

*Aspects Concerning the Behaviour of Heavy Metals In Soil*

Vasile Lucian Pavel, Florian Stătescu, **Maria Gavrilăescu**, In: *Current topics, Concepts and Research Priorities in Environmental Chemistry*, Editor Carmen Zaharia, Editura Universității „Alexandru Ioan Cuza” din Iași, pp. 341-358, 2012.

**2011**

**21.**

*Sustainable Industrial Production* (in Romanian, *Producție industrial durabilă*)

**Maria Gavrilescu**

Editura Politehnium, Iasi, 2011, 250 pags.

**22.**

*Landfill-Ultimate Waste Management Technique*

A. Omran, H.A. Azziz, **Maria Gavrilescu**, A.M. Schiopu

Published by Faculty of Engineering, University of Sam Ratulangki Manado, Indonesia, 2011

ISBN 978-979-17509-8-1, 152 pags.

**23.**

*Sustainability*

**Maria Gavrilescu**

In: *Comprehensive Biotechnology*, Editor Murray Moo-Young, vol. 2, *Engineering Fundamentals in Biotechnology*, Editor Collin Webb, Elsevier, 2011, 19 pags., 905-923

(included in Web of Science)

**2010**

**24.**

*Biosorption in Environmental Remediation*

**Maria Gavrilescu**

In: *Bioremediation Technology – Theory & Application*, Editor M.H. Fulekar, Springer Verlag - Capital Publishing, New Delhi, 2010, 35-99

(included in Web of Science)

**25.**

*Impacts of Sorption, Migration and Bioavailability of Contaminants on Soil Bioremediation*

Florentina Anca Căliman, **Maria Gavrilescu**

In: *Trends in Bioremediation and Phytoremediation*, Ed. Grazyna Plaza, Research Signpost, Kerala, India, 81-111, 2010

**2009**

**26.**

*Persistent Pollutants in the Environment*

I. Pharmaceuticals and Personal Care Compounds (in Romanian, *Poluanți persistenti în mediu I. Produse farmaceutice și de igienă*)

Florentina Anca Căliman, Brîndușa Mihaela Robu, Camelia Smaranda, Vasile Lucian Pavel,

**Maria Gavrilescu** (Editor)

Politehnium Press Iași, Romania, 2009, ISBN 978-973-621-280-2, vol. I: ISBN 978-973-621-281-9

**27.**

*Persistent Pollutants in the Environment*

II. Persistent Organic Pollutants and Dyes (in Romanian, *Poluanți persistenti în mediu II. Poluanți organici persistenti și coloranți*)

Florentina Anca Căliman, Brîndușa Mihaela Robu, Camelia Smaranda, Vasile Lucian Pavel,

**Maria Gavrilescu** (Editor), Editura Politehnium, Iasi, Romania, 2009, ISBN 978-973-621-280-2, vol. II:

ISBN 978-973-621-282-6

**28.**

*Persistent Pollutants in the Environment*

III. Heavy Metals (in Romanian, *Poluanți persistenti în mediu III. Metale grele*)

Florentina Anca Căliman, Brîndușa Mihaela Robu, Camelia Smaranda, Vasile Lucian Pavel,

**Maria Gavrilescu** (Editor), Editura Politehnium, Iasi, Romania, 2009, ISBN 978-973-621-280-2, vol. III:

ISBN 978-973-621-283-3.

**29.**

*Persistent Pollutants in the Environment*

IV. Identification, Integrated Assessment and Management of Risks Associated with Impacts Induced in the Environment by Persistent Pollutants, (in Romanian, *Poluanți persistenti în mediu IV. Identificarea, estimarea și managementul integrat al riscurilor asociate impacturilor induse în mediu de poluanții persistenti*)

Florentina Anca Căliman, Brîndușa Mihaela Robu, Camelia Smaranda, Vasile Lucian Pavel,

**Maria Gavrilescu** (Editor), Editura Politehnium, Iasi, Romania, 2009, ISBN 978-973-621-280-2, vol. IV:

ISBN 978-973-621-284-0.

**2008**

**30.**

*Risk Assessment and Management* (in Romanian, *Estimarea și managementul riscului*)

**Maria Gavrilescu**

Ecozone, Iași, Romania (2008), Third Revised Edition, ISBN 978-973-7645-55-5; 233 pages.

**2007**

**31.**

*Pollution Prevention and Premises on Implementing Cleaner Production in Paper Industry* (in Romanian, *Prevenirea poluării și premise pentru implementarea producției curate în industria hârtiei*)

**Maria Gavrilescu**, Cristina Costache

In: *Sustainable Water Management Practices in the Paper Industry (Practici durabile pentru managementul apei în industria hârtiei)*, Editors: C. Teodosiu, D. Gavrilescu, F. Ungureanu, Cermi Press, Iasi, Romania (2007), ISBN (13) 978-973-667-253-8, pp. 75-155.

**2006**

32. *Risk Assessment and Management* (in Romanian, *Estimarea și managementul riscului*)  
**Maria Gavrilescu**  
Ecozone Press, Iași, Romania (2006). , Second Edition, ISBN (10) 973-86848-9-7; ISBN (13) 978-973-86848- 9-8, 208 pages.
- 2005**
33. *Modelling and Simulation of Processes in Environmental Engineering* (in Romanian, *Modelarea și simularea proceselor în ingineria mediului*)  
**Maria Gavrilescu**, Florina Ungureanu, Corneliu Cojocaru, Matei Macoveanu, ECOZONE, Iasi, Romania, 2005, ISBN: 973-86848-6-2, vol.I, ISBN: 973-86848-7-0, 448 pages.
34. *Source Reduction and Waste Minimization* (in Romanian, *Reducerea poluării la sursă și minimizarea deșeurilor*), second edition  
**Maria Gavrilescu**, Mihai Nicu  
ECOZONE Press, Iasi, Romania, 2005, ISBN 973-86-84-8-4-6, 241 pages.
35. *Transnational Research Co-Operation*  
**Maria Gavrilescu**  
In: *Opportunities and Challenges for Transnational Research Co-Operation*, Editors: C. Teodosiu, S. Brodersen, M. Sogaard Jorgensen, EcoZone Press, Iasi, Romania, 2005, ISBN 973 7645-11-1, pp.139-143
- 2004**
36. *Source Reduction and Waste Minimization* (in Romanian, *Reducerea poluării la sursă și minimizarea deșeurilor*)  
**Maria Gavrilescu**, Mihai Nicu  
ECOZONE Press, Iasi, Romania, 2004, ISBN 973-86847-0-6, 177 pages.
37. *Risk Assessment and Management* (in Romanian, *Estimarea și managementul riscului*)  
**Maria Gavrilescu**  
ECOZONE, Iasi, Romania, (2003), ISBN 973-86082-3-6, 160 pages.
- 2002**
38. *Ion-Exchange Processes in Environmental Protection* (in Romanian, *Procese de schimb ionic în protecția mediului*)  
Matei Macoveanu, Doina Bilba, Nicolae Bilba, **Maria Gavrilescu**, Gabriela Soreanu MatrixRom Press, Bucharest, Romania, (2002), ISBN 973-685-396-9, 462 pags.
- 2001**
39. *Engineering and Management of Minimization of Pollutants and Waste at Source* (in Romanian, *Ingineria și managementul minimizării poluantilor și deșeurilor la sursă*)  
Mihai Nicu, **Maria Gavrilescu**, Florina Ungureanu  
"Gh. Asachi" Technical University Printing House, Iași, Romania, 2001, 184 pags.
40. *Gas-Lift Bioreactors in Biotechnology and Environmental Protection* (in Romanian, *Bioreactoare air-lift în biotecnologie și protecția mediului*)  
**Maria Gavrilescu**  
In: *Advances in Biotechnology* (in Romanian: *Progrese în biotecnologie*), Popa, V.I. (Ed.), SedcomLibris Press, Iasi, Romania, 1999, ISBN 973-8028-79-5, pags. 104-159.
- 2000**
41. *Stirred-Tank Chemical Reactors* (in Romanian, *Reactoare chimice cu agitare mecanică*)  
**Maria Gavrilescu**, Ion Grigoriu, Rodica Viorica Roman  
VIE Press, Iasi, Romania, ISBN 973-99759-2-5, 286 pags., 2000
- 1999**
42. *Static Mixing, in Fermentation Processes*  
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## **Manuals/Courses**

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*Elaboration, writing and supporting scientific papers (in Romanian, Elaborarea, scrierea și susținerea lucrărilor științifice)*

#### **Maria Gavrilescu**

*Course for PhD Students for Advanced Academic Program, within The Doctoral School of "Gheorghe Asachi" Technical University of Iasi, Romania, On-line at: <http://omicron.ch.tuiasi.ro/~mgav/ERSLS/ERSLS.htm>*

*Chemical and Biological Process Engineering (in Romanian: Ingineria proceselor chimice și biologice)*

#### **Maria Gavrilescu**

*Course for Engineering Students involved in the specialization "Engineering and Environmental Protection in Industry", Department of Environmental Engineering and Management, Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi" Technical University of Iasi, Romania, On-line at: <http://omicron.ch.tuiasi.ro/~mgav/mgav10.html>*

*Integrated Pollution Prevention and Control (in Romanian, Prevenirea și controlul integrat al poluării)*

#### **Maria Gavrilescu**

*Course for Undergraduate Students involved in the specialization "Engineering and Environmental Protection in Industry", Department of Environmental Engineering and Management, Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi" Technical University of Iasi, Romania, On-line at: <http://omicron.ch.tuiasi.ro/~mgav/mgav10.html>*

*Sustainable Industrial Production*

#### **Maria Gavrilescu**

*Course for Master Students involved in the specialization "Environmental Management and Sustainable Energy", "Gheorghe Asachi" Technical University of Iasi, Romania, On-line at: <http://omicron.ch.tuiasi.ro/~mgav/mgav10.html>*

*Sustainable Industrial Production (in Romanian, Producție industrial durabilă)*

#### **Maria Gavrilescu**

*Course for Master Students involved in the specialization "Environmental Management", Department of Environmental Engineering and Management, Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi" Technical University of Iasi, Romania, On-line at: <http://omicron.ch.tuiasi.ro/~mgav/mgav10.html>*

**CD**

*Occupational Health and Safety Management (CD support)*

#### **Maria Gavrilescu**

*Postgraduate course: Design and Implementation of OHSAS Management System  
Technical University Iasi, MISP Department*

**2002**

*Risk Assessment and Management (in Romanian, Estimarea și managementul riscului)*

#### **Maria Gavrilescu**

*"Al. I Cuza" University and "Gh. Asachi" Technical University of Iasi, Open Distance Learning Master Course – Environmental Management, 130 pages.*

**2001**

*Modelling and Simulation of Processes for Environmental Protection (in Romanian, Modelarea și simularea proceselor pentru protecția mediului)*

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## Papers published in Conference and Symposia Proceedings

### ISI Proceedings

#### 2018

1. *Life Cycle Assessment applied to circular designed construction materials*  
Sara Zanni, Isabela Maria Simion, **Maria Gavrilescu**, Alessandra Bonoli  
25th CIRP Life Cycle Engineering (LCE) Conference  
Edited by: Laurent A., Leclerc A., Niero M., Dong Y., Olsen S.I., Owsiania M., Bey N., Ryberg M., Hauschild M.Z., Book Series: Procedia CIRP, Vol. 69, pp. 154-159, (2018) DOI: 10.1016/j.procir.2017.11.040  
WOS:000435141900027

#### 2017

2. *Life Cycle Assessment of Paper Manufacturing: Environmental and Human Health Impacts*,  
Isabela Maria Simion, Elena-Diana Comăniță, Raluca Maria Hlihor, Petronela Cozma, Simona Cecilia Ghiga, Mihaela Roșca, **Maria Gavrilescu**,  
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3. *Overview of human health hazards posed by pesticides in plant products*,  
Petronela Cozma, Laura Carmen Apostol, Raluca Maria Hlihor, Isabela Maria Simion, Maria Gavrilescu,  
**E-Health and Bioengineering Conference (EHB)**, ISBN: 978-1-5386-0358-1, DOI: 10.1109/EHB.2017.7995419
4. *Application of Cost-Benefit Analysis for an Eco-Product Manufactured from Production Waste*,  
Elena-Diana Comăniță, Isabela Maria Simion, Petronela Cozma, Raluca Maria Hlihor, Teofil Campean, **Maria Gavrilescu**,  
**International Proceedings of Chemical, Biological and Environmental Engineering**, 101, 91-98 (2017), DOI: 10.7763/IPCBE.

#### 2015

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Elena-Diana Comăniță, Cristina Ghinea, Mihaela Roșca, Isabela Maria Simion, Madalina Petraru, **Maria Gavrilescu**  
Book Group Author(s): IEEE  
Conference: E-Health And Bioengineering Conference (EHB) Location: Iasi, ROMANIA Date: NOV 19-21, 2015, Sponsor(s): IEEE; IEEE-EMB Romania Chapter; Inst Comp Sci Romanian Acad Iasi Branch; Romanian Soc Med Bioengineering; IEEE Romania Sect; EHB  
**2015 E-HEALTH AND BIOENGINEERING CONFERENCE (EHB)**
6. *Potential of Biosorption and Bioaccumulation Processes for Heavy Metal Removal in Bioreactors*  
Mihaela Rosca, Raluca-Maria Hlihor, Petronela Cozma, Elena - Diana Comăniță, Isabela Maria Simion, **Maria Gavrilescu**  
Book Group Author(s): IEEE  
Conference: E-Health And Bioengineering Conference (EHB) Location: Iasi, ROMANIA Date: NOV 19-21, 2015, Sponsor(s): IEEE; IEEE-EMB Romania Chapter; Inst Comp Sci Romanian Acad Iasi Branch; Romanian Soc Med Bioengineering; IEEE Romania Sect; EHB  
**2015 E-HEALTH AND BIOENGINEERING CONFERENCE (EHB)**
7. *Evaluation of Pentachlorophenol Leaching Potential in Natural Soils*  
Camelia Smaranda, Laura Bulgariu, Mihaela Rosca, Remus Turculeț, Cristina Ghinea, **Maria Gavrilescu**  
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**2015 E-HEALTH AND BIOENGINEERING CONFERENCE (EHB)**
8. *Efficient removal of Pb(II) ions from accidental polluted waters by adsorption onto thermal activated lignin*  
Gabriela Nacu, Lăcrămioara Negrilă, Mihaela Roșca, Camelia Smaranda, Laura Bulgariu, **Maria Gavrilescu**  
Book Group Author(s): IEEE  
Conference: E-Health And Bioengineering Conference (EHB) Location: Iasi, ROMANIA Date: NOV 19-21, 2015, Sponsor(s): IEEE; IEEE-EMB Romania Chapter; Inst Comp Sci Romanian Acad Iasi Branch; Romanian Soc Med Bioengineering; IEEE Romania Sect; EHB  
**2015 E-HEALTH AND BIOENGINEERING CONFERENCE (EHB)**

9. The ability of *Arthrobacter viscosus* in the removal of Pb(II) from aqueous solutions,  
**Raluca Maria Hlihor, Hugo Figueiredo, Mihaela Rosca, Teresa Tavares, Maria Gavrilescu**,  
*Proceedings of the IWA 8<sup>th</sup> Eastern European Young Water Professionals Conference, Gdańsk, Poland*, 12-14 May, 2016, pp. 631-638, 2016.
10. Human health risk assessment of pesticide residues in field grown yellow peppers,  
**Raluca Maria Hlihor, Manuela Olga Pogacean, Brindusa Mihaela Robu Sluser, Maria Gavrilescu**,  
*International Proceedings of Chemical, Biological & Environmental Engineering, Environmental Science and Technology VII*, 94, 32-37, 2016, DOI: 10.7763/IPCBE.2016.V94. 5

## **2010**

11. *Agro Waste Used as Natural Sorbents for Acid Red 51 Uptakes*  
Laura Carmen Apostol, Luciana Pereira, Madalena Alves, **Maria Gavrilescu**  
*Proceedings of The 3<sup>rd</sup> International Conference on Advanced Materials and Systems ICAMS 2010*, ISSN: 2068-0783, pp. 351-356, 2010.
12. *Biosorption of cadmium (II) ions from simulated wastewaters by dried yeast biomass*  
Raluca Maria Hlihor, Mariana Diaconu, Hugo Figueiredo, Teresa Tavares, **Maria Gavrilescu**  
*Proceedings of The 3<sup>rd</sup> International Conference on Advanced Materials and Systems ICAMS 2010*, ISSN: 2068-0783, pp. 387-392, 2010.

## **2008**

13. *Application of academic research into production – Case study: Transfer of Research to Industrial Waste Water Recycling Technology*  
Luminița Lupu, Carmen Teodosiu, **Maria Gavrilescu**  
*Proceedings of the 5th International Seminar on the Quality Management in Higher Education*, pp. 241-246, 2008.

## **2007**

14. *Rate-based design of integrated distillation sequences*  
I. Mueller, O.- M. Penciu, E. Y. Kenig, **Maria Gavrilescu**  
*17th European Symposium on Computer Aided Process Engineering – ESCAPE17*  
V. Plesu and P.S. Agachi (Editors), pp. 1053-1058  
2007 Elsevier B.V.

## **2005**

15. *Proactive environmental strategies through cleaner production*  
**Maria Gavrilescu**  
*9th International Conference on Environmental Science and Technology*, September 01-03, 2005 Rhodes Isl, GREECE, in: Proceeding of the 9th International Conference on Environmental Science and Technology Vol. B. Poster Presentations Book Series: *Proceedings of the International Conference on Environmental Science and Technology*, pp. B243-B248, 2005.

## **2003**

16. *Non-conventional curriculum design for the formation of the chemical engineer*  
Matei Macoveanu, Carmen Teodosiu, **Maria Gavrilescu**, Valentin I.Popa  
*International Conference Management of Technological Changes*, Chania, Grecia, August (2003), ISBN 960-8475-03-1

## **National and International Conferences (peer reviewed)**

### **2010**

1. *The environmental behavior of pentachlorophenol in Iasi area soil*  
Smaranda Camelia, Puitel Adrian, Mălutan Theodor, **Maria Gavrilescu**  
*The 14<sup>th</sup> International Symposium on Cellulose Chemistry and Technology*, Iași, 2010, ISBN 978-973-621-306-9, pp. 246-251.
2. *Bean husk used for Erythrosine B removal*  
Laura Carmen Apostol, **Maria Gavrilescu**  
*The 14<sup>th</sup> International Symposium on Cellulose Chemistry and Technology*, Iași, 2010, ISBN 978-973-621-306-9, pp. 218-213
3. *Equilibrium, thermodynamic and kinetic studies for the biosorption of aqueous cadmium(II) ions by Saccharomyces cerevisiae*  
Raluca Maria Hlihor, Mariana Diaconu, **Maria Gavrilescu**  
*The 14<sup>th</sup> International Symposium on Cellulose Chemistry and Technology*, Iași, 2010, ISBN 978-973-621-306-9, pp. 232-238.
4. *Airlift bioreactors for pulp and paper effluents treatment and management*  
Petronela Cozma, **Maria Gavrilescu**  
*The 14<sup>th</sup> International Symposium on Cellulose Chemistry and Technology*, Iași, 2010, ISBN 978-973-621-306-9, pp. 226-231.

5. *Estimating the environmental benefits of pollution prevention practices*  
Mădălina Petraru, **Maria Gavrilescu**
- The 14<sup>th</sup> International Symposium on Cellulose Chemistry and Technology**, Iași,  
2010, ISBN 978-973-621-306-9, pp. 220-225
6. *Prognostic tools for assessment of alternative waste management scenarios*  
Cristina Ghinea, **Maria Gavrilescu**
- The 14<sup>th</sup> International Symposium on Cellulose Chemistry and Technology**, Iași,  
2010, ISBN 978-973-621-306-9, pp. 214-219.
- 2009**
7. *Landfilling Impact Assessment Induced by Leachate Contaminant Loadings and Management Options*,  
Ana-Maria Schiopu, Brîndușa Mihaela Robu, Abdelnaser Omran, **Maria Gavrilescu**
- 1<sup>st</sup> CONVEEESH**, Proceedings of the International Conference on Engineering, Environment, Economic, Safety & Health, 26 – 27 October 2009, Manado, Indonesia (CD)
8. *Millennium development goals ensuring environmental sustainability: country level*  
Abdelnaser Omran, **Maria Gavrilescu**
- International Conference on Communication and Environment, Transformation for a Sustainable Tomorrow**, Penang, Malaesia, 9 – 11 December 2009 (CD)  
www.usm.my/comn/icce09
9. *Behaviour of persistent pollutants and risks associated with their presence in the environment*, **Gavrilescu M.**  
Căliman F.A., Robu B.M., Smaranda Camelia, Pavel V.L., Hlihor R.M., Apostol L.C.,  
**Exhibition of The Romanian Research Realization – Research Salon – 2009**, Octomber 28 – 31, 2009, Bucharest International Technical Fair, Exhibitions Complex ROMEXPO
10. *Potential benefits and threats of emerging technologies for soil and groundwater cleanup*, **Gavrilescu M.**  
Căliman F.A., Robu B.M., Smaranda Camelia, Pave V.L.  
**A XIII-a Conferință Internațională de Inventică „Cercetări și Tehnologii Inovative Performante”**, 4-6 June 2009, Iași, România, pp. 537-555, Editura Performantica, Iași, ISBN 978-973-730-610-4
- 2008**
11. *Solid Waste Management in Romania*  
Ana-Maria Schiopu, **Maria Gavrilescu**, Abdelnaser Omran
- Proceedings of the 2<sup>nd</sup> International Conference on Built Environment in Developing Countries "Sustainable Built Environment: Bridging Theory and Practice"**, 3-4 December 2008, University Sains Malaysia, Penang, pp. 982-1000.
12. *Management of Waste Electric and Electronic Equipment*  
Ana-Maria Schiopu, **Maria Gavrilescu**
- Innovative Materials and Processes**, Proceedings of the National Conference *Days of the Faculty of Chemical Engineering and Environmental Protection*, ISBN 978-973-621-255-0, pags. 139-145.
13. *Sorption Studies of Some Heavy Metals (CrVI and CdII) on Natural Soil*  
Lucian Vasile Pavel, Raluca Maria Hlihor, Camelia Smaranda, Florentina Anca Căliman, **Maria Gavrilescu**
- Innovative Materials and Processes**, Proceedings of the National Conference *Days of the Faculty of Chemical Engineering and Environmental Protection*, ISBN 978-973-621-255-0, pags. 249-254.
14. *Study of Pentachlorophenol Sorption on a Natural Clay as Sorbent*  
Laura Carmen Apostol, Camelia Smaranda, Florentina Anca Căliman, Igor Crețescu, **Maria Gavrilescu**
- Innovative Materials and Processes**, Proceedings of the National Conference *Days of the Faculty of Chemical Engineering and Environmental Protection*, ISBN 978-973-621-255-0, pags. 255-260.
15. *Study concerning the sorption of textile azo dye Orange II on soil particles*  
Camelia Smaranda, Laura Carmen Apostol, Lucian Vasile Pavel, Florentina Anca Căliman, **Maria Gavrilescu**
- Innovative Materials and Processes**, Proceedings of the National Conference *Days of the Faculty of Chemical Engineering and Environmental Protection*, ISBN 978-973-621-255-0, pags. 461-466.
16. *Factors influencing the sorption of anionic azo dye tartrazine from aqueous solutions onto natural clay*  
Florentina Anca Caliman, **Laura Carmen Apostol**, Raluca Maria Hlihor, **Maria Gavrilescu**
- Innovative Materials and Processes**, Proceedings of the National Conference *Days of the Faculty of Chemical Engineering and Environmental Protection*, ISBN 978-973-621-255-0, pags. 261-265.

- 17.** *Process Integration for Rationalization of Water Networks*,  
Oana Marlena Penciu, **Maria Gavrilescu**  
**Innovative Materials and Processes**, Proceedings of the National Conference *Days of the Faculty of Chemical Engineering and Environmental Protection*, ISBN 978-973-621-255-0, pags. 51-52.
- 18.** *Integrated studies on the behaviour of persistent pollutants and risks associated with their presence in the environment*  
**Maria Gavrilescu**, Brindusa Robu, Florentina Anca Căliman, Camelia Betianu, Lucian Vasile Pavel  
**International Jubiliar Conference on Inventing – INVENTICA 2008**, Edition XII, pp.689-692

## 2007

- 19.** *Partition and sorption of heavy metals to soil*  
Camelia Bețianu, L. Brinza, Lucian Vasile Pavel, **Maria Gavrilescu**  
Annals of the University of Agricultural Sciences and Veterinary Medicine „Ion Ionescu de la Brad” Iași, **Lucrări Științifice** – vol. 50, **seria Agronomie**, ISSN 1454-7414, Proceedings of the 50th International Conference: Romanian Agriculture în EU, Opportunities and Perspectives, (CD version), Iași, Romania
- 20.** *Simulation of transport and behaviour of some persistent organic pollutants in soil*,  
Camelia Bețianu, Roxana Mai, Florina Ungureanu, **Maria Gavrilescu**  
Annals of the University of Agricultural Sciences and Veterinary Medicine „Ion Ionescu de la Brad” Iași, **Lucrări Științifice** – vol. 50, **seria Agronomie**, ISSN 1454-7414, Proceedings of the 50th International Conference: Romanian Agriculture în EU, Opportunities and Perspectives, (CD version), Iași, Romania.

## 2001

- 21.** *Formation and Education of the Chemical Engineer in the View of Sustainable Development (in Romanian)*  
**Maria Gavrilescu**, Carmen Catalina Ioan, Matei Macoveanu  
“**Omul si Mediul (Human and Environment)**”, Academic Days Simposium, May 24-25, 2001, Timisoara Romania, Edited by Politehnica University, Timisoara, 2001, ISBN 973-8247-31-4, pags. 187-192.
- 22.** *Globalization and Responsible Integration. Arguments and Traps (in Romanian)*.  
Carmen Catalina Ioan, **Maria Gavrilescu**, Matei Macoveanu  
“**A treia conferinta internațională de sisteme electromecanice și energetice. Chisinau (The Third Conference on Electromechanical and Energetic Systems)**”, 4-6 octombrie 2001”, vol. II, Edited by Moldavian Technical University, Kishinev, 2001, ISBN 9975-9638-7-0, pages 205-208.
- 23.** *Energetic Resourses in Economy and Environment. An Integrated Approach of Attitudes*.  
Carmen Catalina Ioan, **Maria Gavrilescu**, Matei Macoveanu  
“**A treia conferinta internațională de sisteme electromecanice și energetice. Chisinau (The Third Conference on Electromechanical and Energetic Systems)**”, 4-6 octombrie 2001”, vol. II, Moldavian Technical University, Kishinev, 2001, ISBN 9975-9638-7-0, pages. 209-212.

## 2000

- 24.** *Modelling and Simulation of a Fixed Biofilm Reactor with Suspended Particles*  
**Maria Gavrilescu**, Florina Ungureanu, Matei Macoveanu, Dana Brisuciuc  
“**SICHEM 2000, International Chemistry Show. October 3-6, 2000**”, Matrix Rom Press, Bucharest, ISBN 973-685-63-X, pags. 212-229.
- 25.** *Simulation of the Microbial Population Behaviour in an Activated Sludge*  
Florina Ungureanu, **Maria Gavrilescu**,  
“**SICHEM 2000, International Chemistry Show. October 3-6, 2000**”, Matrix Rom Press, Bucharest, ISBN 973-685-63-X, pags. 368-380.
- 26.** *Activated Sludge Bioreactor Modelling and Simulation*  
**Maria Gavrilescu**, Florina Ungureanu, Matei Macoveanu, Ioana Gorgos  
“**SICHEM 2000, International Chemistry Show. October 3-6, 2000**”, Matrix Rom Press, Bucharest, ISBN 973-685-63-X, pags. 197-211.

## 1998

- 27.** *Modelling mixing parameters in concentric-tube airlift reactors*  
**Maria Gavrilescu**, Radu Z. Tudose  
“**International Chemistry Show**”, SICHEM'98, 20-23 octombrie 1998, “Chemical Engineering Series”, SIChR, ISBN 973 - 9390 - 36 - 6, p. 340-349
- 28.** *Heat Transfer in Bioprocesses (in Romanian)*.  
**Maria Gavrilescu**, R.V. Roman  
In: “**Noutati in microbiologie si biotecnologie (Advances in Microbiology and Biotechnology)**” Corson Press, Iasi (1998). , ISBN: 973-98259-8-2, pags.349-360

- 29.** *Bioreactors with immobilized microorganisms for wastewater biological treatment (in Romanian).*  
**Maria Gavrilescu**, M. Macoveanu  
In: "**Noutati in microbiologie si biotecnologie (Advances in Microbiology and Biotechnology)**" Corson Press, Iasi (1998). , ISBN: 973-98259-8-2, pags. 369-376
- 30.** *Pneumatic Bioreactors in Industrial Bioprocesses and Environmental Protection (in Romanian).*  
**Maria Gavrilescu**, M. Macoveanu  
In: "**Noutati in microbiologie si biotecnologie (Advances in Microbiology and Biotechnology)**" Corson Press, Iasi (1998). , ISBN: 973-98259-8-2, pags.377-387.

**1988**

- 31.** *Unconventional Bioreactors for Antibiotics Biosynthesis.*  
R.V. Roman, **Maria Gavrilescu**, A. Sauciuc, A. Pintilie, A. Pascal, G. Neacsu  
In: "**175 years of Technical Education in Romanian Language**" Iasi, November 10-12, 1988, Edited by Politehnic Institute of Iasi, vol. X, Sect.XXI, 1988, pags. 203-208.
- 32.** *Mass Transfer and Gas-Liquid Dispersion Characteristics in an External-Loop-Recycling Airlift Bioreactor (in Romanian).*  
R.V. Roman, **Maria Gavrilescu**, A. Sauciuc, V. Asandului, A. Pintilie, A. Pascal.  
**Microbiologie industriala si biotecnologie (Industrial Microbiology and Biotechnology)**, Edited by "Al. I.Cuza" University of Iasi and Biological Sciences Society of Iasi, 1988, pags. 905-913.
- 33.** Oxygen Mass Transfer in a Deep Jet Bioreactor with Injector (in Romanian).  
**Maria Gavrilescu**, R.V. Roman, A. Sauciuc, A. Pintilie, A. Pascal, I. Vornicu, G. Jalencu **Microbiologie industriala si biotecnologie (Industrial Microbiology and Biotechnology)**, Edited by "Al. I.Cuza" University of Iasi and Biological Sciences Society of Iasi, 1988, pags. 915-926.
- 34.** *Study of the Influence of Some Liquid Properties on Oxygen Dissolving Capacity (in Romanian).*  
**Maria Gavrilescu**, R.V. Roman, A. Sauciuc, V. Asandului  
**Microbiologie industriala si biotecnologie, (Industrial Microbiology and Biotechnology)**, Edited by "Al. I.Cuza" University of Iasi and Biological Sciences Society of Iasi, 1988, pags. 927-937.

**1986**

- 35.** *Bacitracin Biosynthesis in an External-Loop-Recycling (in Romanian)*  
**Maria Gavrilescu**, R.V. Roman, A. Sauciuc, E. Iluc, G. Neacsu, A. Dorobat, M. Comanescu, L. Bulgaru, A. Mustea  
**Microbiologie industriala si biotecnologie (Industrial Microbiology and Biotechnology)**, Edited by "Al. I.Cuza" University of Iasi and Biological Sciences Society of Iasi, **1986**, pags. 487-495.
- 36.** *Effects of Static Mixers on Mass Transfer in an External-Loop-Recycling Bioreactor (in Romanian).*  
M. Ionescu, R.V. Roman, **Maria Gavrilescu**, A. Sauciuc, S. Matache, C. Poncu, A. Pintilie. **Microbiologie industriala si biotecnologie (Industrial Microbiology and Biotechnology)**, Edited by "Al. I.Cuza" University of Iasi and Biological Sciences Society of Iasi, **1986**, pags. 851-860.
- 37.** *Recovery of Biological Reaction Heat using Heat Pumps (in Romanian).*  
A. Sauciuc, R.V. Roman, **Maria Gavrilescu**  
**Microbiologie industriala si biotecnologie (Industrial Microbiology and Biotechnology)**, Edited by "Al. I.Cuza" University of Iasi and Biological Sciences Society of Iasi, 1986, pags. 845-849.

## Conferences and Keynote lectures

**2019**

- 1.** *Earth resources and the environment - past, present and perspectives*  
**Maria Gavrilescu**, Alexandru Ozunu, Dan-Alexandru Gavrilescu  
International Symposium "Environment and Progress", Babes-Bolyai University Cluj-Napoca, Faculty of Environmental Science and Engineering, November 15, 2019.  
*Invited plenary lecture*

- 2.** *The ecological footprint of the industrial system and sustainable industrial production*  
**Maria Gavrilescu**  
Conference of the Doctoral School, "Gheorghe Asachi" Technical University of Iasi, May 22-23, 2019  
*Invited plenary lecture*

**2017**

- 3.** *Extending production waste life cycle and energy saving by eco-innovation and eco-design – the case of packaging manufacturing*  
**Maria Gavrilescu**, Teofil Câmpean, Dan-Alexandru Gavrilescu  
*Conference on Sustainable Energy, CSE 2017*, October 19 – 21, Brasov, Romania,  
*Invited Keynote Lecture*

**2016**

4. *Plastics in the environment: a cradle-to-grave approach*  
**Maria Gavrilescu**,  
**11th International Conference on "Environmental Legislation, Safety Engineering and Disaster Management" ELSEDIMA**  
26 - 28 May 2016, Cluj-Napoca, Romania.  
**Invited plenary lecture**

**2015**

5. *Food waste to materials and energy: current trends, global perspectives and impacts*  
**Maria Gavrilescu**  
**Environment and Progress Conference**, 29-30 octombrie 2015, Cluj-Napoca, Romania  
**Invited plenary lecture**

**2014**

6. *Ecological and Human Risk Assessment: an Integrated Approach*  
**Maria Gavrilescu**  
Invited lecture, ELSEDIMA International Conference – 18 – 19 September 2014, Cluj-Napoca, Romania  
**Invited plenary lecture**

7. *Biomass potential for sustainable environment, biorefinery products and energy*  
**Maria Gavrilescu**  
Invited lecture, Conference for Sustainable Energy-CSE, *Renewables in the built environment and buildings' sustainability*, 06 – 08 November 2014, Brasov, Romania  
**Invited plenary lecture**

**2013**

8. *Survey on the evolution of sustainability in industrial production*  
**Maria Gavrilescu**  
**9th National Symposium with International Participation "Environment and Progress"**  
**25 October 2013, University Babes Bolyai of Cluj Napoca, Romania**  
**Invited plenary lecture**

9. *Sustainable Industrial Production and Waste Minimization*  
**Maria Gavrilescu**  
**ESEA Summer School, Sustainable Smart Metropolitan Regions**  
15 – 28 July 2013, Transilvania University of Brasov, Romania  
**Invited lecturer**

10. *Education, research, and innovation for environmental sustainable development*  
**Maria Gavrilescu**  
**Workshop of the Doctoral School, University dell'Insubria, Varese, Italy, Faculty of Engineering, May 31, 2013, Varese, Italy**  
**Invited lecturer**

11. *Romanian National Romanian Strategy for Sustainable Development in the Perspective of Horizon 2020*  
**Workshop of the Doctoral School, University dell'Insubria, Varese, Italy, Faculty of Engineering, May, 2013, Varese, Italy**  
**Invited lecturer**

12. *Environmental Sustainability through Pollution Prevention and Environmental Protection*  
**Workshop of the Doctoral School, University Alma Mater Studiorum, Bologna, Italy, Faculty of Engineering, June 7, 2013, Bologna, Italy**  
**Invited lecturer**

**2012**

13. *Alternatives for Sustainable Industrial Production*  
**Maria Gavrilescu**  
**Progress in Environmental Engineering, Biotechnology and Management in the Frame of Knowledge-Based Sustainable Economy, Exploratory Workshop, September19-21, 2012, Iasi, Romania**  
**Invited lecturer**
14. *Inter-reggio: concept of restoration projects of local streams*  
**Maria Gavrilescu**  
**Progress in Environmental Engineering, Biotechnology and Management in the Frame of Knowledge-Based Sustainable Economy, Exploratory Workshop, September19-21, 2012, Iasi, Romania**  
**Invited lecturer**

- 15.** *About Fate and Behaviour of Some Persistent Organic Pollutants in Romanian Soils: A Condition in Bioremediation*  
**Maria Gavrilescu**  
**Workshop of the Doctoral School, University Frederico II, Naples, Italy, Faculty of Engineering,**  
**May 30, 2012, Naples, Italy**  
*Invited lecturer*
- 16.** *Chemical and Environmental Engineering for Sustainable Development*  
**Maria Gavrilescu**  
**Workshop, Technical University Vienna, Institute fur Verfahrenstechnik, Umwelttechnik und Techn.**  
 Biowissenschaften, June 26, 2012  
*Invited lecturer*
- 2011**
- 17.** *Biosorption-an alternative for contaminant removal from the environment*  
**Maria Gavrilescu**  
**The 19th International Conference on Environmental Indicators, September 11-14, 2011,**  
**Technion, Haifa, Israel**  
*Invited plenary lecture*
- 18.** *Biosorption and bioaccumulation in environmental remediation*  
**Maria Gavrilescu**  
**Workshop of the Doctoral School, University Alma Mater Studiorum, Bologna, Italy, Faculty of**  
**Engineering, May 2, 2011, Bologna, Italy**  
*Invited lecturer*
- 19.** *Biosorption and bioaccumulation of persistent pollutants on dead and living biomass*  
**Maria Gavrilescu**  
**6th International Conference on Environmental Engineering and Management**  
**ICEEM 06, September 1 – 4, 2011, Balatonalmádi, Hungary**  
*Invited plenary lecture*
- 20.** *Education, research, development and innovation for environmental protection and sustainable development*  
**Maria Gavrilescu**  
**Workshop of the Doctoral School, University Frederico II, Naples, Italy, Faculty of Engineering,**  
**May, 2011, Naples, Italy**  
*Invited lecturer*
- 2010**
- 21.** *Romania on its way toward sustainability*  
**Maria Gavrilescu**  
**Workshop Sustainability in Education, Research, Development and Innovation, September 15-16,**  
**2010**  
**University of Twente, Enschede, Olanda, August 15, 2010**  
*Invited lecturer*
- 22.** *National Romanian strategy for sustainable development*  
**Workshop Sustainability in Education, Research, Development and Innovation, 15-16 septembrie 2010**  
**University of Twente, Enschede, Olanda, August 15, 2010**  
*Invited lecturer*
- 2009**
- 23.** *Education, research, development and innovation for environmental protection and sustainable development*  
**Maria Gavrilescu**  
**Pannon University, Veszprem, Ungaria, August 25, 2009**  
*Invited lecturer*
- 24.** *Integrated studies on the behaviour of persistent pollutants and risks associated with their persistence in the environment*  
**Maria Gavrilescu**  
**Pannon University, Veszprem, Ungaria, August 25, 2009**  
*Invited lecturer*
- 25.** *Education, research, development and innovation for environmental protection and sustainable development*  
**Maria Gavrilescu**  
**National Symposium: Environment – Present and Perspectives for an Ecological Future, Iași, March**  
**2008.**  
*Invited plenary lecture*

**2008**

26. *Innovative and sustainable practices in industry. Case study: vegetable oil refining*  
**Maria Gavrilescu**  
**2nd International Sustainability Conference: Creating Values for Sustainable Development**, 21-August 22, 2008, Basel, Switzerland  
*Invited lecturer*
27. *Integrated studies on the behaviour of persistent pollutants and risks associated with their presence in the environment*  
**Gavrilescu M.**, Robu B.M, Căliman A.F., Bețianu C., Pavel V.L.  
**Conferința Internațională Jubiliară e Inventică – INVENTICA 2008**, Ed. a XII-a, 12-25 mai 2008, Iași  
*Invited lecturer*
28. *Environmental Engineering and Management Journal - Beginning, Present and Perspectives*  
**Maria Gavrilescu**, Keynote lecture  
The Second National Symposium: "University's Creations" 2008, Iași, Romania, November 7 (2008).  
*Invited lecturer*
29. *Pollution Prevention and Environmental Protection*  
**Maria Gavrilescu**, Keynote lecture  
**National Symposium: Environment – Present and Perspectives for an Ecological Future**, Iași, March 2008  
*Invited plenary lecture*
- 2007**
30. *Process Engineering and Pollution Prevention*  
**Maria Gavrilescu**  
**Workshop, Technical University Vienna, Institute für Verfahrenstechnik**, Umwelttechnik und Techn. Biowissenschaften, August 24 – 30, 2007  
*Invited lecturer*
31. *SIWMANET: Sustainable and Integrated Water Resources Management Network*  
**Maria Gavrilescu**, Carmen Teodosiu  
**Workshop, Danish University of Technology**, Copenhagen, Denmark (2007).  
*Invited lecturer*
32. *An Education and Research Profile in Environmental Engineering and Management*  
**Maria Gavrilescu**, Carmen Teodosiu  
**Workshop, Danish University of Technology**, Copenhagen, Denmark (2007).  
*Invited lecture*
- 2006**
33. *Practical aspects on the elaboration of project proposals*  
**Maria Gavrilescu**  
**Workshop "SIWMANET"**, October 2006, Iasi, Romania.  
*Invited lecture*
34. *Pollution prevention and cleaner production – optimistic perspectives for Romania*  
**3rd International Conference on Environmental Engineering and Management**, September 23-26, 2006, Iasi, Romania.  
*Invited lecture*
35. *Integrated pollution prevention and control in industrial sectors*  
**Maria Gavrilescu**  
**Workshop: Process Integration and Design for Pollution Prevention**, University Minho, Portugal, Department of Biological Engineering, Braga, June 10, 2006  
*Invited lecture*
- 2005**
36. *Bioremediation in environmental engineering*  
**Maria Gavrilescu**  
**Seminar: Biological Engineering** University Minho, Portugal, Department of Biological Engineering, Braga, September 30, 2005  
*Invited lecture*
37. *Biosorption of heavy metals by marine algae*  
**Maria Gavrilescu**  
**Seminar: Biological Engineering**, University Minho, Portugal, Department of Biological Engineering, Braga, September 30, 2005.  
*Invited lecture*

- 38.** Romanian perspective on partnerships in sustainable water management and use, Carmen Teodosiu, **Mariana Gavrilescu**, George Barjoveanu  
**2<sup>nd</sup> LK Conference: "Advancing Science and Society Interactions"**, Sevillia 3-5 februarie 2005, Workshop: Linking partners in transnational co-operation on sustainable water management and land use  
**Invited lecture**
- 2004**
- 39.** Sources of pollution. Dangerous substances, **Maria Gavrilescu**  
**European Summer School HUMAN ENVIRONMENT: ENERGY, FORESTS, HEALTH AND SOCIETY**, organized by the University HeNoy Poincaré Nancy, Universitatea Nancy 1 and „Gh. Asachi” Technical University of Iasi, September 3-10, 2004.  
**Invited lecture**
- 40.** Major accidents in connection with hazardous industries **Maria Gavrilescu**  
**European Summer School HUMAN ENVIRONMENT: ENERGY, FORESTS, HEALTH AND SOCIETY**, organized by the University Henry Poincaré Nancy, Universitatea Nancy 1 and „Gh. Asachi” Technical University of Iasi, September 3-10, 2004.  
**Invited lecture**
- 41.** Community Measures: Seveso Directives **Maria Gavrilescu**  
**European Summer School HUMAN ENVIRONMENT: ENERGY, FORESTS, HEALTH AND SOCIETY**, organized by the University Henry Poincaré Nancy, Universitatea Nancy 1 and „Gh. Asachi” Technical University of Iasi, September 3-10, 2004.  
**Invited lecture**
- 42.** Environmental risk assessment for new projects **Maria Gavrilescu**  
**European Summer School HUMAN ENVIRONMENT: ENERGY, FORESTS, HEALTH AND SOCIETY**, organized by the University Henry Poincaré Nancy, Universitatea Nancy 1 and „Gh. Asachi” Technical University of Iasi, September 3-10, 2004.  
**Invited lecture**
- 2003**
- 43.** Department of environmental engineering: opportunities for cooperation with IIIIEE Carmen Teodosiu, Matei Macoveanu, **Maria Gavrilescu**  
Workshop within the exchange on curricula held at the International Institute for Industrial Environmental Economics, IIIIEE Lund, Suedia, Grant **Knowledge transfer and institutional capacity building for cleaner production in Romania, 2003** funded by the Swedish Institute Stockholm, Suedia  
**Invited lecture**
- 44.** Chemical engineering in the postmodern world **Maria Gavrilescu**  
**Celebration of 2003 students' graduation of the Faculty of Chemical Engineering**  
**Invited lecture**
- 2002**
- 45.** Pages from the history of the chemical engineering academic education in iasi Valentin Popa, Valeria Marta Gorduza, **Maria Gavrilescu**  
**The Third Conference of the Faculty of Industrial Chemistry, Iași, Octomber 13-15, 2002.**  
**Invited lecture**
- 2001**
- 46.** Accomplishments and perspectives in academic research at Faculty of Industrial Chemistry Iasi Valentin I. Popa, **Maria Gavrilescu**  
**The XXVIth International Symposium of Chemistry**, October 4-6, Calimanesti-Romania 4-6 Octomber 2000, Călimănești-Căciulata, Vâlcea  
**Invited lecture**
- 1999**
- 47.** Mathematical Modelling, Premise for Pollutants Minimization at Source **Maria Gavrilescu**, F. Ungureanu, M. Nicu  
**Conference Days of the Department of Environmental Engineering**, Faculty of Industrial Chemistry, Iasi, December 1999.  
**Invited lecture**
- 1996**
- 48.** Flow modelling in gas-lift reactors **Maria Gavrilescu**, Radu Z. Tudose  
**Academic Days**, October 10-13, Iasi (1996)  
**Invited lecture**

**1995**

49. *Research on chemical engineering at Research Center for Antibiotics Iasi, Romania*  
Rodica Viorica Roman, **Maria Gavrilescu**  
**Academic Days**, 5 - 8 October, Iasi (1995).  
**Invited lecture**
50. *Biosynthesis of some antibiotics in industrial scale modified stirred tank bioreactors*  
Rodica Viorica Roman, **Maria Gavrilescu**  
**"40 Years of Industrial Biosynthesis of Drugs in Romania"**, Iasi, December, 8-9 (1995)  
**Invited lecture**

**1993**

51. *Mass transfer modelling in gas-lift reactors*  
**Maria Gavrilescu**, Radu Z. Tudose **Academic Days**,  
May 20 - 22, Timisoara, Romania (1993)  
**Invited lecture**

**1986**

52. *Agitation. Flow models in agitated liquids.*  
**Maria Gavrilescu**, Rodica Viorica Roman  
**Research Center for Antibiotics Conference Days**, Iasi, Romania, 1986  
**Invited lecture**

**1984**

53. *Some aspects on mass transfer in fermentation processes*  
**Maria Gavrilescu**, Rodica Viorica Roman  
**Research Center for Antibiotics Iasi Conference Days**, Romania, 1984  
**Invited lecture**

## Oral Communications and Posters

### National and International Conferences and Symposia

**2019**

1. *Optimization of biosorption process for hexavalent chromium removal by microorganisms*  
Mihaela Rosca, Mariana Diaconu, **Maria Gavrilescu**,  
Conferința Școlii Doctorale – TUIASI 22-23 Mai, 2019, Iași, Romania  
**Oral presentation**
2. *The behavior of plants in the presence of organic UV filters*  
Mariana Minuț, Mihaela Roșca, Petronela Cozma, Camelia Smaranda, Cezar Catrinescu, Mariana Diaconu,  
**Maria Gavrilescu**  
Conferința Școlii Doctorale – TUIASI 22-23 Mai, 2019, Iași, Romania  
**Oral presentation**
3. *Lindane toxic effects on white mustard (*Sinapis alba*) and rapeseed (*Brassica napus*)*  
Sebastian Ionut Vasilica, Mihaela Rosca, Petronela Cozma, Diana Elena Comanita, Mariana Diaconu,  
Cezar Catrinescu, **Maria Gavrilescu**  
Conferința Școlii Doctorale – TUIASI 22-23 Mai, 2019, Iași, Romania  
**Oral presentation**
4. *Ecological and human health risks generated by organic UV filters*  
Mariana Minuț, Mihaela Rosca, Petronela Cozma, Cezar Catrinescu, **Maria Gavrilescu**  
**E-Health and Bioengineering Conference (EHB)**, 2019, 21-23 November 2019, Iasi, Romania  
**Poster**
5. *Influence of cadmium and lead ions toxicity on lettuce seeds germination: a preliminary analysis*  
Petronela Cozma, Dana-Mihaela Asiminicesei, Raluca-Maria Hlihor, Mihaela Rosca, **Maria Gavrilescu**  
**E-Health and Bioengineering Conference (EHB)**, 2019, 21-23 November 2019, Iasi, Romania  
**Poster**
6. *Ecological risk assessment of nickel in soil and the effects on the *Brassica napus* growth*  
Mihaela Roșca, Petronela Cozma, Mariana Minuț, Dana Mihaela Asiminicesei, Camelia Smaranda, Mariana Diaconu, **Maria Gavrilescu**  
**E-Health and Bioengineering Conference (EHB)**, 21-23 November 2019, Iasi, Romania  
**Poster**

- 7.** *Environmental bioremediation by plants and microorganisms*  
**Maria Gavrilescu**, Mihaela Roșca, Diana-Elena Comăniță, Raluca Maria Hlihor, Petronela Cozma, Mariana Diaconu  
*USAMV Iasi Open Days*, 17-18 October 2019, Iasi, Romania  
**Poster**
- 8.** *The development of Brassica napus under the stress of cadmium: An ecological risk approach*  
Petronela Cozma, Mihaela Roșca, Raluca Maria Hlihor, Dana Mihaela Asiminicesei, Diana Elena Comăniță, **Maria Gavrilescu**  
*USAMV Iasi Open Days*, 17-18 October 2019, Iasi, Romania  
**Poster**
- 9.** *The evaluation of the phytotoxic effects on plants exposed to pesticides*  
Camelia Smaranda, Mihaela Roșca, Elena-Diana Comăniță, Mariana Minuț, Petronela Cozma,  
**Maria Gavrilescu**  
*USAMV Iasi Open Days*, 17-18 October 2019, Iasi, Romania  
**Poster**
- 10.** *An approach towards modeling the human health risks posed by pesticides residues in lettuce,*  
Hlihor R.M., Paiu M., Favier L., Stoleru V., **Gavrilescu M.**  
*USAMV Iasi Open Days*, 17-18 October 2019, Iasi, Romania  
**Poster**
- 11.** *Environmental impact assessment generated by different management practices: a case study applied in the city of Bologna, Italy,*  
Ghiga S.C., Simion I.M., Hlihor R.M., Bonoli A., **Gavrilescu M.**,  
*USAMV Iasi Open Days*, 17-18 October 2019, Iasi, Romania  
**Poster**
- 12.** *Cumulative risk assessment of the intake of fruits and vegetables with multiple pesticides*  
Mariana Minuț, Mihaela Roșca, Petronela Cozma, Raluca Maria Hlihor, **Maria Gavrilescu**,  
*USAMV Iasi Open Days*, 17-18 October 2019, Iasi, Romania  
**Poster**
- 13.** *Environmental impact assessment in the elimination processes of organic and inorganic pollutants from soil using phytoremediation,*  
Elena-Diana Comăniță, Camelia Smaranda, Mihaela Roșca, Petronela Cozma, **Maria Gavrilescu**  
*USAMV Iasi Open Days*, 17-18 October 2019, Iasi, Romania  
**Poster**
- 14.** *Evaluation of zeolite 13X performances for dynamic adsoption of cadmium ions in fixed bed column*  
Mihaela Roșca, Raluca-Maria Hlihor, Teresa Tavares, **Maria Gavrilescu**  
*USAMV Iasi Open Days*, 17-18 October 2019, Iasi, Romania  
**Poster**
- 15.** *Behind the mechanism of chromium(vi) removal and reduction from aqueous solutions by fungal biomass using a bio-inspired process modelling and optimization*  
Hlihor R.M., Drăgoi E.N., Diaconu M., Favier L., Curteanu S., **Gavrilescu M.**  
*2nd Euro-Mediterranean Conference for Environmental Integration (EMCEI-2)*, 10-13 October 2019, Sousse, Tunisia.  
**Oral presentation**
- 16.** *Equilibrium study of pentachlorophenol in soil matrix*  
Camelia Smaranda, Mihaela Roșca, Petronela Cozma, Elena-Diana Comăniță, **Maria Gavrilescu**, *International Conference ICICH60*, 9-11 octombrie 2019, Chisinau, Republica Moldova.  
**Poster**
- 17.** *Exploring and exploiting microbial and plant abilities and interactions in environmental bioremediation – A project for sustainable environment*  
**Maria Gavrilescu**  
*The 10th International Conference on Environmental Engineering and Management (ICEEM10)*, 18-21 September, Iasi, Romania.  
**Poster**
- 18.** *An analysis on WEEE management strategies in Romania*  
Ghiga S.C., Simion I.M., Hlihor R.M., **Gavrilescu M.**  
*The 10th International Conference on Environmental Engineering and Management (ICEEM10)*, 18-21 September, Iasi, Romania.  
**Poster**

- 19.** *Effect of lindane on photosynthetic pigments in Sinapis alba leaves,*  
 Camelia Smaranda, Mihaela Roșca, Elena-Diana Comăniță, Mariana Minuț, Sebastian Vasilică, Petronela Cozma,  
**Maria Gavrilescu**,  
*The 10th International Conference on Environmental Engineering and Management (ICEEM10),*  
 18-21 September, Iasi. Romania.  
**Poster**
- 20.** *Phytotoxicity of Cd(II) ions on seed germination and growth of tested plants*  
 Petronela Cozma, Mihaela Roșca, Elena-Diana Comăniță, Sebastian-Ionuț Vasilică, Mariana Minuț, Dana Asiminicesei, Mariana Diaconu, **Maria Gavrilescu**  
*The 10th International Conference on Environmental Engineering and Management (ICEEM10),* 18-21  
 September, Iasi. Romania.  
**Poster**
- 21.** Life cycle assessment of soil phytoremediation  
 Elena-Diana Comăniță, Cristina Ghinea, Petronela Cozma, Camelia Smaranda, Mihaela Roșca, Sebastian Ionut  
 Vasilică, **Maria Gavrilescu**,  
*The 10th International Conference on Environmental Engineering and Management (ICEEM10),* 18-21  
 September, Iasi. Romania.  
**Poster**
- 22.** *Investigating the toxic effects of lindane on white mustard (Sinapis alba)*  
 Sebastian Ionuț Vasilică, Mihaela Roșca, Petronela Cozma, Camelia Smaranda, Mariana Diaconu,  
 Cezar Catrinescu, **Maria Gavrilescu**  
*The 10th International Conference on Environmental Engineering and Management (ICEEM10),* 18-21  
 September, Iasi. Romania  
**Poster**
- 23.** *Evaluation of human health risk associated with the presence of pesticides in fruits and vegetables*  
 Mariana Minuț, Mihaela Roșca, Petronela Cozma, Raluca Maria Hlihor, **Maria Gavrilescu**,  
*The 10th International Conference on Environmental Engineering and Management (ICEEM10),* 18-21  
 September, Iasi. Romania.  
**Poster**
- 24.** *Cadmium ions removal from aqueous solution using Bacillus megaterium biofilm layer on zeolite support*  
 Mihaela Roșca, Teresa Tavares, **Maria Gavrilescu**  
*The 10th International Conference on Environmental Engineering and Management (ICEEM10),* 18-21  
 September, Iasi. Romania.  
**Poster**
- 25.** *Evaluation of soil phytoremediation performance by multicriteria decision analysis,*  
 Elena-Diana Comăniță, Cristina Ghinea, Simona Cecilia Ghiga, **Maria Gavrilescu**  
**International Conference on Environmental Science and Development (ICESD),** 26 – 27 July 2019 –  
 Milan, Italy  
**Oral presentation**
- 26.** *Effects induced by heavy metals stress on seedlings development of lettuce*  
 Dana-Mihaela Asiminicesei, Raluca Maria-Hlihor, Mihaela Roșca, Petronela Cozma, **Maria Gavrilescu**  
*640th International Conference on Environmental Science and Development (ICESD),* 20th - 21st July 2019,  
**Oral presentation**
- 27.** *A comparison of the environmental impacts resulted during biosorption of Cr(VI) from aqueous solutions,*  
 Raluca Maria Hlihor, Isabela Maria Simion, Lidia Favier, **Maria Gavrilescu**,  
*Workshop on Applications of Multi-scale Approaches in Environmental Chemistry (AMARE 2019),* 22-28 April  
 2019, Rennes, France.  
**Oral presentation**
- 2018**
- 28.** *Functional groups on microorganisms wall surface involved in cadmium ions removal from aqueous solution*  
 Mihaela Roșca, Mariana Diaconu, Petronela Cozma, Elena-Diana Comăniță, **Maria Gavrilescu**  
 Conference of Doctoral School, "Gheorghe Asachi" Technical University of Iasi, 23-24 Mai, 2018, Iași, Romania  
**Oral Presentation**
- 29.** *Lead ( $Pb^{2+}$ ) toxicity effects on White mustard (Sinapis alba)*  
 Sebastian Ionuț Vasilică, Mihaela Roșca, Petronela Cozma, Elena-Diana Comăniță, Mariana Diaconu, **Maria Gavrilescu**  
 Conference of Doctoral School, "Gheorghe Asachi" Technical University of Iasi, 23-24 Mai, 2018, Iași, Romania  
**Oral Presentation**

- 30.** *Investigation of heavy metals toxic effects on White Mustard*  
Sebastian Ionuț Vasilică, Mihaela Roșca, Elena-Diana Comăniță, Petronela Cozma,  
Mariana Diaconu, **Maria Gavrilescu**  
4th International Conference on Chemical Engineering (ICCE), 31th October–02nd November 2018, Iași,  
Romania, "Gheorghe Asachi" Technical University of Iasi, "Cristofor Simonescu"Faculty of Chemical Engineering  
and Environmental Protection, Iasi, Romania.  
**Oral Presentation**
- 31.** *Phytotoxicity and accumulation of lindane in terrestrial plants,*  
**Mihaela Roșca, Sebastian Ionuț Vasilică, Elena-Diana Comăniță, Petronela Cozma,**  
**Camelia Smaranda, Mariana Diaconu, Cezar Catrinescu, Maria Gavrilescu**  
15th International Symposium on Persistent Toxic Substances, 6–11 November 2018 – FHNW, Basel, Switzerland  
**Oral Presentation and Poster**
- 32.** *Monitoring of heavy metals in the environment: from estimation methods to trace analysis (in Romanian: Monitorizarea metalelor grele în mediul înconjurător: de la metode estimative la analiza în urme),*  
Laura Bulgariu, Carmen Teodosiu, **Maria Gavrilescu**  
Days of the "Gheorghe Asachi" Technical University in Iasi, 6–16 November 2018, Iași, România  
**Prezentare orală**
- 33.** *Removal of toxic metal ions from aqueous effluents by biosorption and bioaccumulation in an airlift system*  
Mihaela Roșca, Teresa Tavares, **Maria Gavrilescu**,  
7th European Bioremediation Conference (EBC-VII) and the 11th International Society  
for Environmental Biotechnology Conference (ISEB 2018), Chania, Grecia, 25–28 June, 2018.  
**Poster**
- 34.** *Evaluation of phytoremediation performance for the removal of heavy metals from the Environment by Life Cycle Assessment (LCA),*  
Elena-Diana Comăniță, Mihaela Roșca, Petronela Cozma, Camelia Smaranda, Sebastian Ionuț Vasilică, **Maria Gavrilescu**,  
4th International Conference on Chemical Engineering (ICCE), 31th October–02nd November 2018, Iași,  
Romania, "Gheorghe Asachi" Technical University of Iasi, "Cristofor Simonescu"Faculty of Chemical Engineering  
and Environmental Protection, Iasi, Romania.  
**Poster**
- 35.** *Kinetic modeling of metal uptake in phytoremediation*  
Petronela Cozma, Sebastian Ionuț Vasilică, Mihaela Roșca, Raluca Maria Hlihor, Cristina Ghinea,  
Laura Carmen Apostol, Elena Diana Comăniță, Camelia Smaranda, Mariana Diaconu, **Maria Gavrilescu**,  
4th International Conference on Chemical Engineering (ICCE), 31th October–02nd November 2018, Iași,  
Romania, "Gheorghe Asachi" Technical University of Iasi, "Cristofor Simonescu"Faculty of Chemical Engineering  
and Environmental Protection, Iasi, Romania.  
**Poster**
- 36.** *Survey on pesticides used at national and international level and available technologies  
for the environmental remediation*  
Mihaela Roșca, Elena-Diana Comăniță, Petronela Cozma, Raluca-Maria Hlihor, **Maria Gavrilescu**  
4th International Conference on Chemical Engineering (ICCE), 31th October–02nd November 2018, Iași,  
Romania, "Gheorghe Asachi" Technical University of Iasi, "Cristofor Simonescu"Faculty of Chemical Engineering  
and Environmental Protection, Iasi, Romania.  
**Poster**
- 37.** *Behavior of *Bacillus megaterium* living biomass in a concentric-tube air-lift bioreactor in the presence of cadmium  
ions*  
Mihaela Roșca, Teresa Tavares, Petronela Cozma, **Maria Gavrilescu**  
4th International Conference on Chemical Engineering (ICCE), 31th October–02nd November 2018, Iași,  
Romania, "Gheorghe Asachi" Technical University of Iasi, "Cristofor Simonescu"Faculty of Chemical Engineering  
and Environmental Protection, Iasi, Romania.  
**Poster**
- 38.** *Acute toxicity of heavy metals to various species of bacteria*  
Mariana Diaconu, Sebastian Ionuț Vasilică, Mihaela Roșca, Petronela Cozma, Elena Diana Comăniță, Camelia  
Smaranda, Raluca-Maria Hlihor, **Maria Gavrilescu**  
4th International Conference on Chemical Engineering (ICCE), 31th October–02nd November 2018, Iași,  
Romania, "Gheorghe Asachi" Technical University of Iasi, "Cristofor Simonescu"Faculty of Chemical Engineering  
and Environmental Protection, Iasi, Romania.  
**Poster**

- 39.** *Evaluation of toxic potential of dairy and meat industry wastewaters: phytotoxicity study on weeds and crop plants,*  
Laura Carmen Apostol, S. Ropciuc, Petronela Cozma, **Maria Gavrilescu**,  
Fifth International Symposium on Green Chemistry, Development and Circular Economy (GREENCHEM), 30th September-03rd October, 2018, Skiathos, Grecia.  
**Poster**
- 40.** *Assessment of organochlorines pesticides phytotoxicity using seed germination and root elongation tests,*  
Mihaela Roșca, Sebastian Ionuț Vasilică, Petronela Cozma, Elena Diana Comăniță, Mariana Diaconu, Cezar Catrinescu, **Maria Gavrilescu**,  
Fifth International Symposium on Green Chemistry, Development and Circular Economy (GREENCHEM), 30th September-03rd October, 2018, Skiathos, Greece.  
**Poster**
- 41.** *Potential of living Rhodotorula sp. for cadmium ions removal from aqueous solutions,*  
Mihaela Roșca, Teresa Tavares, Petronela Cozma, Elena-Diana Comăniță, **Maria Gavrilescu**  
4th International Conference on Green Chemistry and Sustainable Engineering 23th - 25th July , 2018 Madrid, Spain  
**Poster**
- 42.** *A comparison on the toxicity of Cr(III) and Cr(VI) in plants,*  
Raluca-Maria Hlihor, Roxana Grigoras, Dana-Mihaela Asiminicesei, Lidia Favier, **Maria Gavrilescu**,  
"U.S.A.M.V. Iasi Open Days", 18th - 25th October 2018, Iasi, Romania  
**Poster**
- 43.** *Perspectives on e-waste environmental impacts based on Life Cycle Assessment,*  
Simona Cecilia Ghiga, Isabela Maria Simion, Raluca Maria Hlihor, **Maria Gavrilescu**,  
"U.S.A.M.V. Iasi Open Days", 18th - 25th October 2018, Iasi, Romania  
**Poster**
- 44.** *Biosorptive performances of soy waste biomass in environmental remediation processes,*  
Daniela Ionela Ferțu, Laura Bulgariu, Teodor Mălățan, **Maria Gavrilescu**  
4th International Conference on Chemical Engineering (ICCE), 31th October–02nd November 2018, Iași, Romania, "Gheorghe Asachi" Technical University of Iasi, "Cristofor Simonescu"Faculty of Chemical Engineering and Environmental Protection, Iasi, Romania.  
**Poster**
- 45.** *Raster sampling, chemical characteristics and floristic peculiarities of a soil affected by anthropic activities,*  
Zotica T.A., Chirilă S.D., Balan C., **Volf I.**,  
4th International Conference on Chemical Engineering (ICCE), 31th October–02nd November 2018, Iași, Romania, Facultatea de Inginerie Chimică și Protecția Mediului "Cristofor Simonescu".  
**Poster**
- 46.** *A comparison of two tools for assessing human health risks of pesticides in apples*  
Raluca-Maria Hlihor, Isabela-Maria Simion, Manuela Olga Pogăcean, Mihaela Roșca, Petronela Cozma, **Maria Gavrilescu**  
International Conference on Life Sciences, Section "Trends in European Agriculture Development", 24-25 May, 2018, Timișoara, Romania  
**Oral communication**
- 47.** *Short- and long-term exposure and associated human health risks to pesticide residues in tomatoes*  
Raluca-Maria Hlihor, Manuela Olga Pogăcean, Petronela Cozma, Mihaela Roșca, **Maria Gavrilescu**  
International Conference on Life Sciences, Section "Trends in European Agriculture Development", 24-25 May, 2018, Timișoara, Romania  
**Oral communication**
- 48.** *Probabilistic modelling of consumer exposure to pesticide residues in tomatoes*  
Petronela Cozma, Marius Gavrilescu, Raluca-Maria Hlihor, Manuela Olga Pogăcean, **Maria Gavrilescu**  
12th Environmental Legislation, Safety Engineering and Disaster Management – ELSEDIMA International Conference, 17-18 May 2018, Cluj-Napoca, Romania  
**Poster**
- 49.** *An approach towards human health risk assessment of pesticide residues in apples*  
Isabela Maria Simion, Mihaela Roșca, Raluca Maria Hlihor, Manuela Olga Pogăcean, **Maria Gavrilescu**  
12th Environmental Legislation, Safety Engineering and Disaster Management – ELSEDIMA International Conference, 17-18 May 2018, Cluj-Napoca, Romania  
**Poster**

- 50.** *Modelling acute and chronic risks of pesticides residues in sour cherries*  
 Isabela Maria Simion, Raluca Maria Hlihor, Manuela Olga Pogăcean, Mihaela Roșca, Petronela Cozma, **Maria Gavrilescu**  
 SETAC Europe 28th Annual Meeting, Responsible and Innovative Research for Environmental Quality, 13-17 May, 2018, Rome, Italy  
**Poster**
- 2017**
- 51.** *Life cycle assessment of paper manufacturing: environmental and human health impacts,*  
 Isabela Maria Simion, Elena-Diana Comăniță, Raluca Maria Hlihor, Petronela Cozma, Simona Cecilia Ghiga, Mihaela Roșca, **Maria Gavrilescu**,  
**The 6th IEEE International Conference on E-Health and Bioengineering - EHB 2017**, Grigore T. Popa University of Medicine and Pharmacy, June 22-24, 2017, Sinaia, Romania.  
**Poster**
- 52.** *Evaluation of environmental impacts for an eco -product manufactured by reusing production waste,*  
 Elena-Diana Comăniță, Isabela Maria Simion, Petronela Cozma, Raluca Maria Hlihor, Teofil Campean, **Maria Gavrilescu**,  
**7th International Congress of Energy and Environment Engineering and Management (CIIEM7)**, 17-19 July, 2017, Canary Islands, Spain.  
**Poster**
- 53.** *Eco-efficiency evaluation of alternatives for recycling and reuse of production waste by multi-criteria decision analysis,*  
 Elena-Diana Comăniță, Isabela Maria Simion, Petronela Cozma, Raluca Maria Hlihor, Teofil Campean, **Maria Gavrilescu**,  
**7th International Congress of Energy and Environment Engineering and Management (CIIEM7)**, 17-19 July, 2017, Canary Islands, Spain.  
**Poster**
- 54.** *Life cycle assessment implications for waste from electrical and electronic equipment (WEEE),*  
 Simona Cecilia Ghiga, Isabela Maria Simion, Nello Napoletano, Alessandra Bonoli, Raluca Maria Hlihor, **Maria Gavrilescu**,  
**7th International Congress of Energy and Environment Engineering and Management (CIIEM7)**, 17-19 July, 2017, Canary Islands, Spain.  
**Poster**
- 55.** *A life cycle approach on food waste management in the frame of circular economy,*  
 Cristina Ghinea, Diana Elena Comanita, **Maria Gavrilescu**,  
**9th International Conference on Environmental Engineering and Management, Circular Economy and Environmental Sustainability**, 6 – 9 Septembrie 2017, Bologna, Italy.  
**Poster**
- 56.** *Evaluation of eco-efficiency by multicriteria decision analysis. case study of eco-innovated and eco-designed products from recyclable waste,*  
 Elena-Diana Comăniță, Isabela Maria Simion, Petronela Cozma, Camelia Smaranda, Raluca Maria Hlihor, Cristina Ghinea, Simona Cecilia Ghiga, Mihaela Roșca, **Maria Gavrilescu**,  
**9th International Conference on Environmental Engineering and Management, Circular Economy and Environmental Sustainability**, 6 – 9 September 2017, Bologna, Italy.  
**Oral presentation**
- 57.** *Life cycle cost analysis of alternatives for closing the loop in a manufacturing sector based on eco-innovation and ecodesign,*  
 Elena-Diana Comăniță, Isabela Maria Simion, Petronela Cozma, Camelia Smaranda, Raluca Maria Hlihor, Cristina Ghinea, Simona Cecilia Ghiga, Mihaela Roșca, **Maria Gavrilescu**,  
**9th International Conference on Environmental Engineering and Management, Circular Economy and Environmental Sustainability**, 6 – 9 September 2017, Bologna, Italy.  
**Poster**
- 58.** *Perspectives on waste electrical and electronic equipment management system in Romania,*  
 Simona Cecilia Ghiga, Raluca Maria Hlihor, Isabela Maria Simion, **Maria Gavrilescu**  
**9th International Conference on Environmental Engineering and Management, Circular Economy and Environmental Sustainability**, 6 – 9 September 2017, Bologna, Italy.  
**Poster**

- 59.** *Indicators for knowledge transfer from university to industry for life cycle extending in the context of circular economy,*  
**Petronela Cozma**, Teofil Câmpean, Ariadna Negruț, Mihaela Roșca, Isabela Maria Simion, Elena-Diana Comanăță, Simona Cecilia Ghiga, Camelia Smaranda, Raluca Maria Hlihor, **Maria Gavrilescu**,  
**9th International Conference on Environmental Engineering and Management, Circular Economy and Environmental Sustainability**, 6 – 9 September 2017, Bologna, Italy.  
**Oral presentation**
- 60.** *Challenges of circular economy: eco-innovation and eco-design in manufacturing sector,*  
Teofil Câmpean, Raluca-Maria Hlihor, Isabela Maria Simion, Elena-Diana Comăniță, Petronela Cozma, Camelia Smaranda, Mihaela Roșca, Dan-Alexandru Gavrilăescu, Cristina Ghinea, **Maria Gavrilescu**,  
**9th International Conference on Environmental Engineering and Management, Circular Economy and Environmental Sustainability**, 6-9 September 2017, Bologna, Italy.  
**Poster**
- 61.** *Life cycle analysis of processes and products manufactured from production waste based on eco-innovation and eco-design principles,*  
Isabela Maria Simion, Elena-Diana Comăniță, Petronela Cozma, Cristina Ghinea, Teofil Câmpean, Raluca Maria Hlihor, Mihaela Roșca, Simona Cecilia Ghiga, Camelia Smaranda, **Maria Gavrilescu**,  
**9th International Conference on Environmental Engineering and Management, Circular Economy and Environmental Sustainability**, 6 – 9 September 2017, Bologna, Italy.  
**Oral presentation**
- 62.** *Dimensional and quantitative analysis of production wastes from packaging industry for their revaluation. The case study of a Romanian manufacturer,*  
Igor Crețescu, Teofil Câmpean, Teodor Constantin Nechita, Adrian Cătălin Puițel, Teodor Măluțan, Dan-Alexandru Gavrilăescu, Camelia Smaranda, Petronela Cozma, **Maria Gavrilescu**,  
**9th International Conference on Environmental Engineering and Management, Circular Economy and Environmental Sustainability**, 6 – 9 September 2017, Bologna, Italy.  
**Poster**
- 63.** *Studies on organic pollutants transport and diffusion in various environmental compartments,*  
Camelia Smaranda, Petronela Cozma, Ioan Mămăligă, Adrian Catalin Puitel, Teodor Malutan, **Maria Gavrilescu**,  
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- 145.** *Evaluation of untreated biomass of Phaseolus vulgaris L. as potential biosorbent for organic dyes,*  
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- 154.** *Selective recovery of antimony from wastewaters*  
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- 165.** *Environmental assessment of recyclable materials using life cycle assessment and multicriteria evaluation*  
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 Maria Emiliana Fortună, Isabela Maria Simion, Alessandra Bonoli, **Maria Gavrilescu**  
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- 169.** *Environmental and economic evaluation of management systems for municipal solid waste*  
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- 170.** *Evaluation of the contribution of the raw materials used in paper production to global warming* Madalina Petraru, Cristina Ghinea, Hans Th. A. Bressers, **Maria Gavrilescu**  
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- 172.** *Analysis of the Environmental Impact of Water Scrubbing Technology Applied for Biogas Upgrading Based on LCA Methodology*  
 Petronela Cozma, Walter Wukovits, Cristina Ghinea, Ioan Mămăligă, Anton Friedl, **Maria Gavrilescu**  
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*Oral communication*
- 173.** *Environmental assessment of municipal solid waste management systems using LCA and multicriteria evaluation*  
 Ghinea C., Petraru M., Bressers Th.A.H., **Maria Gavrilescu**  
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- 174.** *Studies on the fate and behaviour of some contaminants in soils as a prerequisite in bioremediation*  
**Maria Gavrilescu**  
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- 175.** *Chromium(VI) removal from aqueous solutions by Trichoderma viride fungal biomass*  
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- 176.** *Decolorization of Aqueous Effluents Using Agro Waste*  
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- 177.** *Application of ecological footprint as a measure of sustainability in construction building*  
Maria Emiliana Fortună, Isabela Maria Simion, Alessandra Bonoli, **Maria Gavrilescu**  
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- 178.** *Photocatalytic degradation of a hazardous food dye*  
**Laura Carmen Apostol**, Anca Florentina Caliman, **Maria Gavrilescu**  
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- 179.** *Assesment of sustainability based on LCA. Case of woody biomass*  
Maria Emiliana Fortună, **Isabela Maria Simion**, **Maria Gavrilescu**  
**International Congress „Woodchem 2011”**, Strasbourg, France, December 1-2, 2011
- 180.** *Life cycle assessment of construction and demolition waste*  
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- 181.** *Assessing pollution prevention and waste management scenarios using specific sustainability indicators*  
Maria Emiliana Fortună, Isabela Maria Simion, **Maria Gavrilescu**  
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- 182.** *Ecological footprint of construction and demolition waste*  
Isabela Maria Simion, Maria Emiliana Fortună, **Maria Gavrilescu**  
**9th International Congress of Young Chemists "YoungChem 2011"** 12-16 October, Cracow, Poland
- 183.** *Life cycle analysis a tool for assessing the environmental impact of solid waste*  
Maria Emiliana Fortună, Isabela Maria Simion, **Maria Gavrilescu**  
**VI edition of the International Symposium, Present Environment and Sustainable Development**, Iasi, October 14 - 16, 2011.
- 184.** *Studies concerning the mechanism of sorption of Congo red on soil*  
Smaranda Camelia, Mămăligă I., Bulgariu D., **Gavrilescu M.**  
**International Conference on Environmental Engineering and Management, ICEEM/06**, Balatonalmadi, Hungary, September 1-4, 2011
- 185.** *Analysis and Management of Specific Processes from Environmental Engineering and Protection Based on Sustainability Indicator*  
Fortună M., Teslaru Simion I., Ghinea C., Petrararu M., Fasolă Apostol L.C., Hlihor R.M., **Gavrilescu M.**  
**The 6th International Conference on Environmental Engineering and Management – ICEEM 06 Green Future**, Balaton Lake, Hungary, September 1-4, 2011
- 186.** *Bio(sorbent) based remediation in environmental pollution control*  
**Laura Carmen Apostol**, Raluca Maria Hlihor, **Maria Gavrilescu**  
*The 5th European Bioremediation Conference”, July 4-7, 2011, Chania, Crete, Greece.*

- 187.** *Ecological footprint of pharmaceutical and cosmetic industries*  
 Maria Emiliana Fortună, Isabela Maria Simion, **Maria Gavrilescu**  
**The 10-th Romanian International Symposium on Cosmetic and Flavour Products "COSMETIC SCIENCE – LOOKING TO THE FUTURE", Iași, România, 31 May-3 June, 2011.**
- 188.** *Sustainability indicators in personal care products sector*  
 Isabela Maria Simion, Maria Emiliana Fortună, **Maria Gavrilescu**  
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- 189.** *Sustainable development indicators and environmental impact*  
 Maria Emiliana Fortună, Isabela Maria Simion, **Maria Gavrilescu**  
**European Exhibition of Creativity and Innovation, Iași, România, May12-14, 2011.**
- 190.** *Indicators for sustainability in industrial systems. Case study: paper manufacturing*  
 Maria Emiliana Fortună, Isabela Maria Simion, **Maria Gavrilescu**  
**International Conference of Applied Sciences. Chemistry and Chemical Engineering, fifth edition, University "Vasile Alecsandri" from Bacău, April 28 –30, 2011, Bacău, Romania.**
- 191.** *Sustainable development indicators a tool for pollution prevent*  
 Maria Emiliana Fortună, Isabela Maria Simion, **Maria Gavrilescu**  
**Days of "Alexandru Ioan Cuza" University, Faculty of Chemistry, October 28 – 29, 2011, Iasi, Romania**
- 192.** *Biogas Upgrading Using Water Scrubbing Technology*  
 Petronela Cozma, Walter Wukovits, Anton Friedl, **Maria Gavrilescu**  
**Days of Faculty of Industrial Chemistry and Environmental Protection, Eighth Edition, November 17-18, 2011, Iassy, Romania**
- 193.** *Analysis of Environmental Impact for Industry Products. Case Study: Paper Manufacturing*  
 Petraru M., Ghinea C., Bressers H., **Gavrilescu Maria**  
**Days of Faculty of Industrial Chemistry and Environmental Protection, Eighth Edition, November 17-18, 2011, Iasi, Romania**
- 194.** *Environmental comparison of solid waste management systems: A case study of the cities of Iasi, Romania and Enschede, Netherlands,*  
 Ghinea C., Petraru M., Bressers H., **Gavrilescu Maria**  
**National Conference "Days of the Faculty of Chemical Engineering and Environmental Protection", 8th Edition, "Innovative Materials and Processes", Iasi, Romania, 17-18 November 2011**
- 195.** *Use of sustainable indicators in solid waste management*  
**Isabela Maria Simion, Maria Emiliana Fortună, Maria Gavrilescu**  
**Days of the Faculty of Chemical Engineering and Environmental Protection, 8th Edition, November 17 – 18, 2011.**
- 2010**
- 196.** *Study of cadmium sorption on soils*  
 Vasile Lucian Pavel, Raluca Maria Hlihor, Dumitru Bulgariu, **Maria Gavrilescu**, Florian Statescu  
**International Symposium Control and Metrology of Environmental Quality Factors (IS.CMEQF-01), 23- November 27, 2010, Iasi, Romania.**
- 197.** *Thermodynamic study of Cd(II) sorption on soil*  
 Raluca-Maria Hlihor, Petronela Cozma, Cristina Ghinea, Vasile Lucian Pavel,  
 Brindusa Mihaela Robu, **Maria Gavrilescu**  
**„Durable agriculture - present and perspectives” – the 53rd Scientific Conference, University of Agricultural Sciences and Veterinary Medicine, Faculty of Agriculture, 21st - 23rd of October, 2010, Iasi, Romania.**
- 198.** *Biosorption of cadmium (II) ions from simulated wastewaters by dried yeast biomass*  
 Raluca Maria Hlihor, Mariana Diaconu, Hugo Figueiredo, Teresa Tavares, **Maria Gavrilescu**  
**The 3rd International Conference on Advanced Materials and Systems, INCDT-INCPI, September 16-18, 2010, Bucharest, Romania.**
- 199.** *Agro Waste Used as Natural Sorbents for Acid Red 51 Uptakes*  
**Laura Carmen Apostol, Luciana Pereira, Madalena Alves, Maria Gavrilescu**  
**The 3rd International Conference on Advanced Materials and Systems, INCDT-INCPI, September 16-18, 2010, Bucharest, Romania.**

- 200.** *Equilibrium, thermodynamic and kinetic studies for the biosorption of aqueous cadmium(II) ions by Saccharomyces cerevisiae*  
 Raluca Maria Hlihor, Mariana Diaconu, **Maria Gavrilescu**  
**The 14th International Symposium on Cellulose Chemistry and Technology**, Gheorghe Asachi Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, September 8-10, 2010, Iasi-Romania.
- 201.** *Bean husk used for Erythrosine B removal*  
 Laura Carmen Apostol, **Maria Gavrilescu**  
**The 14th International Symposium on Cellulose Chemistry and Technology**, Gheorghe Asachi Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, September 8-10, 2010, Iasi-Romania.
- 202.** *Airlift bioreactors for pulp and paper effluents treatment and management*  
 Petronela Cozma, **Maria Gavrilescu**  
**The 14th International Symposium on Cellulose Chemistry and Technology**, Gheorghe Asachi Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, September 8-10, 2010, Iasi-Romania.
- 203.** *The environmental behavior of pentachlorophenol in Iasi area soil*  
 Smaranda Camelia, Puițel Adrian, Măluțan Theodor, **Gavrilescu Maria**  
**The 14th International Symposium on Cellulose Chemistry and Technology**, Gheorghe Asachi Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, September 8-10, 2010, Iasi-Romania.
- 204.** *Prognostic tools for assessment of alternative waste management scenarios*  
 Cristina Ghinea, **Maria Gavrilescu**  
**The 14th International Symposium on Cellulose Chemistry and Technology**, Gheorghe Asachi Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, September 8-10, 2010, Iasi-Romania.
- 205.** *Estimating the environmental benefits of pollution prevention practices*  
 Madalina Petraru, **Maria Gavrilescu**  
**The 14th International Symposium on Cellulose Chemistry and Technology**, Gheorghe Asachi Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, September 8-10, 2010, Iasi-Romania.
- 206.** *Process in assessment of ecological and health risk induced by persistent organic pollutants*  
**Gavrilescu M.**, Robu B., Căliman A.F., Smaranda Camelia, Pavel V.L.  
**European Exhibition of Creativity și Innovation, EUROINVENT Iași**, May 7-9, 2010
- 207.** *Removal of CO<sub>2</sub> from gas streams in airlift reactors*  
 Petronela Cozma, **Maria Gavrilescu**  
**Days of the Faculty of Chemical Engineering and Environmental Protection**, November 17-19, 2010, Iași, România
- 208.** *Influence of pH on Cr(VI) reduction and removal by Saccharomyces cerevisiae*  
 Raluca-Maria Hlihor, Mariana Diaconu, **Maria Gavrilescu**  
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- 209.** *Municipal Solid Waste Management -Environmental Assessment from Life Cycle Perspective*  
 Cristina Ghinea, **Maria Gavrilescu**  
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- 210.** *Transition towards a sustainable economy based on industrial ecology principles: Romanian case study*  
 Madalina Petraru, **Maria Gavrilescu**  
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- 211.** *Thermodynamic study of Cd(II) sorption on soil*  
 Raluca-Maria Hlihor, Petronela Cozma, Cristina Ghinea, Vasile Lucian Pavel, Brîndușa Mihaela Robu, **Maria Gavrilescu**  
**International Conference of "Durable Agriculture-Present and Perspectives"**, October 21-23, 2010, Iași, România

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- 212.** *Behaviour of persistent pollutants and risks associated with their presence in the environment* **Gavrilescu M.,** Căliman F.A., Robu B.M., Smaranda Camelia, Pavel V.L., Hlihor R.M., Apostol L.C.  
*Exhibition Of The Romanian Research Realization – Research Salon – 2009, Octomber 28 – 31, 2009,*  
Bucharest International Technical Fair, Exhibitions Complex ROMEXPO
- 213.** *Bioavailability processes for contaminants in soils and their use in risk assessment*  
Raluca Maria Hlihor, Laura Carmen Apostol, Camelia Smaranda, Vasile Lucian Pavel, Florentina Anca Căliman, Brîndușa Mihaela Robu, **Maria Gavrilescu**  
**International Conference Of Environmental Engineering And Management – ICEEM 05** – September 15-19, 2009, Tulcea, Romania.
- 214.** *Analysis of factors determining the behaviour of chromium in some romanian soils*  
Vasile Lucian Pavel, Dumitru Bulgariu, Laura Bulgariu, Raluca Maria Hlihor, **Maria Gavrilescu**  
**International Conference Of Environmental Engineering And Management – ICEEM 05** – September 15-19, 2009, Tulcea, Romania.
- 215.** *Studies on sorption and transport processes of cadmium in soils*  
Vasile Lucian Pavel, Dumitru Bulgariu, Laura Bulgariu, Raluca Maria Hlihor, **Maria Gavrilescu**  
**International Conference Of Environmental Engineering And Management – ICEEM 05** – September 15-19, 2009, Tulcea, Romania.
- 216.** *Potential benefits and threats of emerging technologies for soil and groundwater cleanup*  
**Gavrilescu M.**, Căliman F.A., Robu B.M., Smaranda Camelia, Pavel V.L.  
The XIII International Conference of Invention „Performant and Innovative Research and Technologies” June 4-6, 2009
- 217.** *Behaviour of persistent pollutants and risks associated with their presence in the environment*  
**Gavrilescu M.**, Căliman F.A., Robu B.M., Smaranda Camelia, Pavel V.L., Hlihor R.M., Apostol L.C.  
**Exhibition of the Romanian Research Realizations – Research Salon** – 2009, Octomber 28 – 31, 2009, Bucharest International Technical Fair, Exhibitions Complex ROMEXPO
- 218.** *Pneumatic (bio)reactors applied in environmental protection*  
Petronela Cozma, **Maria Gavrilescu**  
**Days of the Faculty of Chemical Engineering and Environmental Protection**, November 18-20, 2009, Iași, România
- 219.** *Models for sustainable waste management*  
Cristina Ghinea, **Maria Gavrilescu**  
**Days of the Faculty of Chemical Engineering and Environmental Protection**, November 18-20, 2009, Iași, România
- 220.** *Overview on the economic assessment of pollution prevention/cleaner production practices*  
**Madalina Petraru**, Maria Gavrilescu  
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- 2008**
- 221.** *Comparative experimental study of Cd(II) sorption on natural and synthetic sorbents (in Romanian)*  
Raluca Maria Hlihor, Lucian Vasile Pavel, Anca Florentina Caliman, Igor Crețescu, **Maria Gavrilescu**  
**Days of the Faculty of Chemical Engineering and Environmental Protection**, November 19-21, 2008, Iași, România
- 222.** *Factors influencing the sorption of anionic azo dye tartrazine from aqueous solutions onto natural clay*  
Florentina Anca Caliman, Laura Carmen Apostol, Raluca Maria Hlihor, **Maria Gavrilescu**  
**Days of the Faculty of Chemical Engineering and Environmental Protection**, November 19-21, 2008, Iași, România
- 223.** *Sorption studies of some heavy metals (CrVI and CdII) on natural soils (in Romanian)*  
Lucian Vasile Pavel, Raluca Maria Hlihor, Camelia Smaranda, Florentina Anca Căliman,  
**Maria Gavrilescu**  
**Days of the Faculty of Chemical Engineering and Environmental Protection**, November 19-21, 2008, Iași, România
- 224.** *Study of Pentachlorophenol Sorption on a Natural Clay as Sorbent*  
Laura Carmen Apostol, Camelia Smaranda, Florentina Anca Căliman, Igor Crețescu,  
**Maria Gavrilescu**  
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- 225.** *Study concerning the sorption of textile azo dye Orange II on soil particles*  
 Camelia Smaranda, Laura Carmen Apostol, Lucian Vasile Pavel, Florentina Anca Căliman,  
**Maria Gavrilescu**  
**Days of the Faculty of Chemical Engineering and Environmental Protection**, November 19-21, 2008,  
 Iași, România
- 226.** *Factors influencing the sorption of anionic azo dye tartrazine from aqueous solutions onto natural clay*  
 Florentina Anca Căliman, Laura Carmen Apostol, Raluca Maria Hlihor, **Maria Gavrilescu**  
**Days of the Faculty of Chemical Engineering and Environmental Protection**, November 19-21, 2008,  
 Iași, România
- 2007**
- 227.** *Comparative study of Cr(VI) removal from aqueous solutions using new sorbents and Purolite A400 resin*  
 Lucian V. Pavel, Panagiotis Misaelides, Dimitrios Zaboulis, Igor Cretescu, **Maria Gavrilescu**  
**International Conference BENA, Belgrad**, November 2007.
- 228.** *Simulation of transport and behaviour of some persistent organic pollutants in soils*  
 Camelia Bețianu, Roxana Mai, Florina Ungureanu, **Maria Gavrilescu**  
 International Conference **Romanian Agriculture in EU: Opportunities and Perspectives**, October 18-19, 007, Iași, Romania.
- 229.** *Partition and sorption of heavy metals to soils*  
 Camelia Bețianu, Loredana Brînză, Vasile Lucian Pavel, **Maria Gavrilescu**  
 International Conference **Romanian Agriculture in EU: Opportunities and Perspectives**, October 18-19, 2007, Iași, Romania.
- 230.** *Cr(VI) Removal from aqueous solutions by an epichlorohydrin / polyethylene-imine resin*  
 Lucian V. Pavel, Panagiotis Misaelides, Dimitrios Zaboulis, Igor Cretescu, **Maria Gavrilescu**  
**4th International Conference on Environmental Engineering and Management**, September 12-15, 2007, Iasi, Romania
- 231.** *Application of advanced oxidative processes for degradation of commercial dyes in aqueous solutions*  
 Florentina Anca Căliman, Camelia Bețianu, Ioannis Poulios, **Maria Gavrilescu**  
**Days of "Alexandru Ioan Cuza" University**, Faculty of Chemistry, October 26-27 (2007).
- 232.** *Degradation of Orange II from aqueous solutions through photocatalytic processes*  
 Camelia Bețianu, Florentina Anca Căliman, **Maria Gavrilescu**, Ioannis Poulios  
**Days of "Alexandru Ioan Cuza" University**, Faculty of Chemistry, October 26-27 (2007).
- 233.** *Studies on Cr (VI) removal from water using a synthetic anionic resin*  
 Lucian Vasile Pavel, Panagiotis Misaelides, Dimitrios Zamboulis, Igor Crețescu,  
**Maria Gavrilescu**  
*Days of Faculty of Industrial Chemistry and Environmental Protection, 15-16 November (2007), Iasi, Romania*
- 234.** *Pollution prevention in chemical industry through process integration*  
 Oana Marlena Penciu, **Maria Gavrilescu**  
**Days of Faculty of Industrial Chemistry**, 18 -19 January (2007).
- 235.** *Biotechnology in environmental protection – bioremediation/treatment of environmental components contaminated with heavy metals*  
 Loredana Brînză, **Maria Gavrilescu**  
**Days of Faculty of Industrial Chemistry and Environmental Protection**, 15-16 November (2007), Iasi, Romania
- 236.** *Natural adsorbents – possibilities for application for the remediation of some environmental components affected by pollution phenomenon*  
 Daniela-Ionela Tudorache, **Maria Gavrilescu**  
**Days of Faculty of Industrial Chemistry and Environmental Protection**, 15-16 November (2007), Iasi, Romania
- 237.** *Options for process integration for pollution prevention*  
 Oana Marlena Penciu, **Maria Gavrilescu**  
**Days of Faculty of Industrial Chemistry and Environmental Protection**, 15-16 November (2007), Iasi, Romania
- 238.** *Comparative study of homogeneous photocatalytic degradation of Alcian Blue 8 GX and Orange II dyes*  
 Camelia Bețianu, Anca Căliman, Ioannis Poulios, **Maria Gavrilescu**  
**Days of Faculty of Industrial Chemistry and Environmental Protection**, 15-16 November (2007), Iasi, Romania

- 239.** *Study of the influence of certain parameters on heterogeneous photocatalytic degradation of Alcian Blue 8 GX and Orange II dyes*  
 Anca Căliman, Camelia Bețianu, Ioannis Poulios, **Maria Gavrilescu**  
**Days of Faculty of Industrial Chemistry and Environmental Protection**, 15-16 November (2007), Iasi, Romania
- 240.** *Selective collection of electric and electronic waste in Iasi city*  
 Ana-Maria Șchiopu, **Maria Gavrilescu**  
**Days of Faculty of Industrial Chemistry and Environmental Protection**, 15-16 November (2007), Iasi, Romania
- 2006**
- 241.** *Remediation of soils polluted with radioactive compounds*  
 Lucian Pavel, **Maria Gavrilescu**, Igor Creteșcu  
 3rd **International Conference on Environmental Engineering and Management**, September 23-26, 2006, Iasi, Romania
- 242.** *Strategies for chemical process integration and changes for pollution prevention and wastewater recycling*  
**Maria Gavrilescu**, Carmen Teodosiu, Dan Gavrilescu, Luminita Lupu  
**International Symposium on Environmental Biotechnology, Leipzig 2006**, July 9-14, 2006
- 2005**
- 243.** *Studies on heavy metals biosorption on marine algae*  
 Otilia Brînză, Loredana Brînză, **Maria Gavrilescu**  
**Days of Faculty of Industrial Chemistry**, 23-25 November 2005, Iasi, Romania
- 244.** *Ecological footprint- tool for sustainability in Romania*  
 Diana Maria Ilie, Nicolae Peiu, **Maria Gavrilescu**  
**Days of Faculty of Industrial Chemistry**, 23-25 November 2005, Iasi, Romania
- 245.** *Proactive environmental strategies through cleaner production*  
**Maria Gavrilescu**  
 9th **International Conference on Environmental Science and Technology**, Rhodes Island, Grecia, september 1-3, 2005
- 246.** *Ability of different algal species to take up heavy metals from wastewater.*  
 Loredana Brinza, Matthew J. Dring, **Maria Gavrilescu**.  
**Annual Meeting of British Phycological Society**, University of Birmingham, United Kingdom, January 5-7, 2005.
- 2002**
- 247.** *Studies on heavy metals removal by biosorption*  
 L. Brînză, **Maria Gavrilescu**  
**The Third Conference of the Faculty of Industrial Chemistry**, Iasi, Romania, 13-15 November (2002).
- 248.** *Studies on the depollution of gaseous fluxes containing VOCs*  
 O. Penciu, **Maria Gavrilescu**  
**The Third Conference of the Faculty of Industrial Chemistry**, Iasi, Romania, 13-15 November 2002
- 1998**
- 249.** *Pneumatic Bioreactors in Industrial Bioprocesses and Environmental Protection*  
**Maria Gavrilescu**, Matei Macoveanu  
**The 9th Symposium on Microbiology and Biotechnology**, Iași, Romania, 16-18 September 1998.
- 250.** *Bioreactors with Immobilized Microorganisms for Wastewater Biological Treatment*  
**Maria Gavrilescu**, Matei Macoveanu  
**The 9th Symposium on Microbiology and Biotechnology**, Iași, Romania, 16-18 September 1998.
- 251.** *Heat Transfer in Bioprocesses*  
**Maria Gavrilescu**, Rodica Viorica Roman  
**The 9th Symposium on Microbiology and Biotechnology**, Iași, Romania, 16-18 September 1998.
- 1996**
- 252.** *Separation by microfiltration and ultrafiltration and concentration by reverse osmosis applied in biochemical processes*  
**Maria Gavrilescu**, Rodica Viorica Roman, Radu Z. Tudose  
**International Symposium Drug Research Between Information and Life Science**, October 3-4, 1996, Bucharest, Romania
- 253.** *Relationship between Momentum, Heat and Mass Transfer in Industrial Bioreactors and Penicillin Biosynthesis*  
 Rodica Viorica Roman, **Maria Gavrilescu**, Radu Z. Tudose  
**International Symposium Drug Research Between Information and Life Science**, October 3-4, 1996, Bucharest, Romania.

- 254** *Momentum, Heat and Mass Transfer in Microbial Cultures in Airlift Bioreactors*  
**Maria Gavrilescu**, Radu Z. Tudose, Rodica Viorica Roman  
**The 4th International Symposium: Biotechnology Today and Tomorrow**, September 26-27, 1996, Bucharest, Romania.
- 255** *Mass Transfer Characteristics of Rushton Modified Turbines*  
Rodica Viorica Roman, Radu Z. Tudose, **Maria Gavrilescu**  
**The 4th International Symposium: Biotechnology Today and Tomorrow**, September 26-27, 1996, Bucharest, Romania.
- 1995**
- 256** *Biosynthesis of Some Antibiotics in Industrial Bioreactors with Modified Impellers*  
Rodica Viorica Roman, Radu Z. Tudose, **Maria Gavrilescu**, Minodor Cojocaru  
**Symposium 40 Years of Industrial Biosynthesis of Drugs in Romania**, 8-9 December (1995). , Iași, Romania.
- 257** *Antibiotic biosynthesis investigation in airlift bioreactors.*  
**Maria Gavrilescu**, Rodica Viorica Roman **International Symposium Modelling for Improved Bioreactor Performance III**, September 21-22, 1995, Brașov, Romania.
- 258** *Performance of Pilot and Industrial Scale Bioreactors with Modified Rushton Turbine Agitators*  
Rodica Viorica Roman, **Maria Gavrilescu**  
**International Symposium Modelling for Improved Bioreactor Performance III**, September 21-22, 1995, Brașov, Romania.
- 1994**
- 259** *Residence Time Distribution in an Airlift Reactor*  
Radu Z. Tudose, **Maria Gavrilescu**  
**The Conference of the Faculty of Industrial Chemistry: Progresses in Chemistry and Chemical Technology**, Iasi, Romania, 13-15 November (1994).
- 1989**
- 260** *Oxygen Mass Transfer in Stirred Tank Bioreactors. I. Oxygen Mass Transfer in Non-Newtonian Liquids*  
Rodica Viorica Roman, **Maria Gavrilescu**, Alexandru Sauciuc, Virginia Asandului  
**7th Symposium on Industrial Microbiology and Biotechnology**, Galați, Romania, 8-9 September, 1989.
- 261** *Oxygen Mass Transfer in Stirred Tank Bioreactors. II. Oxygen Mass Transfer in Newtonian Liquids*  
**Maria Gavrilescu**, Rodica Viorica Roman, Alexandru Sauciuc, Alexandru Pintilie, Alexandru Pascal, Liviu Cârligeanu  
**7th Symposium on Industrial Microbiology and Biotechnology**, Galați, Romania, 8-9 September, 1989.
- 262** *Studies on the Rheological Behaviour of Some Antibiotic Biosynthesis Liquids*  
**Maria Gavrilescu**, Rodica Viorica Roman, Alexandru Sauciuc, Virginia Asandului  
**8th Session of Communications "Actualities in Antibiotic Research, Production and Use"**, Research Center for Antibiotics, Iași, Romania, 25-26 May, 1989.
- 263** *Effect of bioreactor and stirrer geometry on mixing power consumption*  
Rodica Viorica Roman, **Maria Gavrilescu**, Alexandru Sauciuc, Sabin Ionescu, Alexandru Pintilie, Alexandru Pascal  
**8th Session of Communications "Actualities in Antibiotic Research, Production and Use"**, Research Center for Antibiotics, Iași, Romania, 25-26 May, 1989.
- 264** *Some Aspects Regarding the Rheology of Antibiotic Biosynthesis Liquids.*  
**Maria Gavrilescu**, Rodica Viorica Roman, Alexandru Sauciuc, Virginia Asandului  
**International Symposium INTERBIOTECH'89**, 28-30 June 1989, Bratislava, Tschechoslovak
- 265** *Mass Transfer and gas-liquid dispersion in an external recycling (airlift) bioreactor.*  
Rodica Viorica Roman, **Maria Gavrilescu**, Alexandru Sauciuc, Virginia Asandului  
**International Symposium INTERBIOTECH'89**, 28-30 June, 1989, Bratislava, Tschechoslovak.
- 1988**
- 266** *Evaluation of the power input for liquid mixing*  
**Maria Gavrilescu**, Rodica Viorica Roman, Vasile Efimov, Alexandru Sauciuc, Sabin Ionescu  
**The 6th Symposium on Industrial Microbiology and Biotechnology**, Galati, Romania, September, 1988.
- 267** *Turbine Impellers for Antibiotic Industry*  
**Maria Gavrilescu**, Rodica Viorica Roman, Alexandru Sauciuc, Alexandru Pintilie, Alexandru Pascal  
**Symposium: Days of Iasi Antibiotics Plant, Iasi, Romania, December 1988.**

- 268** *Mass Transfer in Airlift Bioreactors*  
 Rodica Viorica Roman, **Maria Gavrilescu**  
**Technical-Scientific Communications Session for Young Specialists**, Brașov, Romania, November, 1988)
- 269** *Unconventional Bioreactors for Antibiotic Biosynthesis*  
 Rodica Viorica Roman, **Maria Gavrilescu**, Alexandru Sauciuc, Alexandru Pintilie, Alexandru Pascal, Gheorghe Neacșu  
**Third National Congress on Chemistry**, Bucharest, Romania, 21-24 September, 1988.
- 270** *Optimization of the Operation Conditions for a Bioreactor*  
**Maria Gavrilescu**, Rodica Viorica Roman, Alexandru Sauciuc, Alexandru Pintilie, Alexandru Pascal, Matei Macoveanu **Third National Congress on Chemistry**, Bucharest, Romania, 21-24 September, 1988.
- 1987**
- 271** *Studies on the Influences of Liquid Phase Properties on Oxygen Dissolution Rate*  
**Maria Gavrilescu**, Rodica Viorica Roman  
**The 7th Symposium of Scientific Communications**, Research Center for Antibiotics, Iași, May, 1987)
- 272** *Gas-Liquid Mass Transfer and Dispersion Characteristics in a Column Bioreactor with External Recirculation*  
 Rodica Viorica Roman, **Maria Gavrilescu**, Alexandru Sauciuc, Virginia Asandului, Alexandru Pintilie, Alexandru Pascal  
**The 7th Symposium of Scientific Communications**, Research Center for Antibiotics, Iași, May, 1987).
- 273** *Oxygen Mass Transfer in a Deep Jet Bioreactor*  
**Maria Gavrilescu**, Rodica Viorica Roman, Alexandru Pintilie, Alexandru Pascal, Ion Vornicu, Gheorghe Jalencu, Alexandru Sauciuc  
**The 7th Symposium of Scientific Communications**, Research Center for Antibiotics, Iași, May, 1987).
- 1986**
- 274** *Mixing. Flowing Models for Agitated Liquids*  
 Rodica Viorica Roman, **Maria Gavrilescu**  
**Conferences and Communications**, Research Center for Antibiotics Iasi, Romania, May, 1986.
- 275** *Biosynthesis of Bacitracin in a Bioreactor with Static Mixers.*  
**Maria Gavrilescu**, Rodica Viorica Roman, Eugen Iluc, Gheorghe Neacșu  
**The 4th Symposium on Biotechnology**, 26-31 May, 1986, Varna, Bulgaria
- 276** *Oxygen Transfer in a Bioreactor with Static Mixers*  
 Rodica Viorica Roman, **Maria Gavrilescu**, Alexandru Sauciuc  
**The 4th Symposium on Biotechnology**, 26-31 May, 1986, Varna, Bulgaria
- 1985**
- 277** *Reuse of heat resulted during veterinary antibiotic biosynthesis*  
 Alexandru Sauciuc, Rodica Viorica Roman, **Maria Gavrilescu**  
**CAER Meeting**, Iasi, Romania, April, 1985.
- 278** *Recuperation of the Biological Heat with Heat Pumps*  
 Alexandru Sauciuc, Rodica Viorica Roman, **Maria Gavrilescu**  
**The 6th Symposium of Scientific Communications**, Research Center for Antibiotics, Iasi, Romania, May 1985.
- 279** *Bacitracin Biosynthesis in an External Loop Fermentor Column Type*  
**Maria Gavrilescu**, Rodica Viorica Roman, Alexandru Sauciuc, Eugen Iluc, Gheorghe Neacșu, Alexandrina Dorobăț, Magda Comănescu, Liliana Bulgariu, Ana Mustea  
**The 6th Symposium of Scientific Communications**, Research Center for Antibiotics, Iasi, Romania, May 1985.
- 280** *Static Mixers Effect on Mass Transfer in an External Loop Fermentor Column Type*  
 Maria Ionescu, Rodica Viorica Roman, **Maria Gavrilescu**, Alexandru Sauciuc, Teodor Rez, Constantin Poncu, Alexandru Pintilie  
**The 6th Symposium of Scientific Communications**, Research Center for Antibiotics, Iasi, Romania, May 1985.
- 1984**
- 281** *Mass Transfer in a Column Bioreactor with Static Mixers*  
 Alexandru Sauciuc, Constantin Poncu, **Maria Gavrilescu**, Rodica Viorica Roman, Alexandru Pascal, Alexandru Pintilie  
**Symposium: 35 Years of the Chemical-Pharmaceutical Research Institute, Bucharest, Romania**, 25-26 October, 1984.

- 282** *Studies on Mass Transfer in Fermentation Processes*  
**Maria Gavrilescu**, Rodica Viorica Roman  
**Conferences and Communications**, Research Center for Antibiotics Iasi, Romania, May, 1984.

## Patents

- 2018** *Procedure for obtaining biocomposite materials intended for the construction and functional elements of europallets (Procedeu de obținere a unor materiale de tip biocompozit destinate realizării elementelor constructive și funcționale ale europaleștilor)*  
Autori: **Gavrilescu Maria**, Crețescu Igor, Maluțan Teodor, Smaranda Camelia, Puitel Catalin, Ghinea Cristina, Hlihor Raluca, Cozma Petronela, Simion Isabela, Comanita Elena-Diana, Rosca Mihaela  
Patent application, Nr. Reference 5192/21.05.2018; Registration Nr. at OSIM: **A 2018 00361**
- 2002** *Gaz-lift reactor for the study of flow and mixing*  
Authors: R.Z. Tudose, **Maria Gavrilescu**  
**Brevet RO 117650/15.04.2002.**  
**Derwent Innovations Index: 2002-505931**
- 2000** *Procedure for purification of NaOH solutions*  
Authors: **Maria Gavrilescu**, R.V. Roman, S. Luca, M. Păduraru  
**Brevet RO/1034011/20.09.2000**  
**Derwent Innovations Index: 2001-022229**
- 1996** *Procedure for filtration of antibiotic biosynthesis liquids*  
Authors: Rodica-Viorica Roman, Vasile Efimov, **Maria Gavrilescu**, Marta Păduraru, Dana Pamfil  
**Brevet RO No. 111248/1996.**  
**Derwent Innovations Index: 1997-243336**
- 1996** *Procedure for filtration of biosynthesis liquid of Rifamycin B*  
Authors: Rodica-Viorica Roman, Vasile Efimov, **Maria Gavrilescu**, Marta Păduraru, Dana Pamfil  
**Brevet RO No. 111251/1996.**  
**Derwent Innovations Index: 1997-243338**
- 1996** *Gas-lift reactor*  
Authors: **Maria Gavrilescu**, Rodica-Viorica Roman, Elisaveta Marciuc, Constanța Diaconu, Alexandru Pintilie, Alexandru Sauciuc  
**Brevet RO No. 110410 B1/1996.**  
**Derwent Innovations Index: 1996-400155**
- 1994** *Dryer with belt*  
Authors: Radu Z. Tudose, **Maria Gavrilescu**, Stelian Petrescu, A. Pop, A. Vulcan,  
**Brevet No. 109204 din 20.08. 1994.**
- 1991** *Column for separation of some components from a solution*  
Authors: Radu Z. Tudose, Alexandru Sauciuc, Stelian Petrescu, Evghenia Ursescu, Rodica-Viorica Roman, **Maria Gavrilescu**  
**Brevet RO No. 101062/1991.**
- 1990** *Procedure and equipment for separation of some components from a solution in discontinuous operation mode*  
Authors: Radu Z. Tudose, Liviu Popovici, Alexandru Sauciuc, **Maria Gavrilescu**, Rodica-Viorica Roman  
**Brevet RO No. 102196/1990**  
**Derwent Innovations Index: 1993-098433**
- 1989** *Open turbine impeller for heterogeneous systems*  
Authors: Alexandru Sauciuc, Rodica-Viorica Roman, **Maria Gavrilescu**, Alexandru Pintilie, Alexandru Pascal, Marta Păduraru, Domenian Dulcescu  
**Brevet RO No. 99730/1989.**  
**Derwent Innovations Index: 1991-175586**
- 1989** *Bioreactor for antibiotics biosynthesis*  
Authors: Maria Ionescu, Rodica-Viorica Roman, **Maria Gavrilescu**, Alexandru Sauciuc, Alexandru Pintilie, Alexandru Pascal, Savel Matache, Teodor Rez.  
**Brevet No. 98240/1989.**

- 1987** *Liquid-liquid extraction column with pulsatory operation*  
 Authors: Radu Z. Tudose, Alexandru Sauciuc, **Maria Gavrilescu**, Rodica-Viorica Roman, Leocadia Jipa, Alexandru Pintilie, Ileana Ciobanu  
**Brevet RO No. 92828/1987.**  
**Derwent Innovations Index: 1988-041060**
- 1987** *Liquid-liquid extraction column*  
 Authors: Radu Z. Tudose, Alexandru Sauciuc, Rodica-Viorica Roman, **Maria Gavrilescu**, Leocadia Jipa, Alexandru Pintilie, Ileana Ciobanu,  
**Brevet RO No. 92880/1987.**  
**Derwent Innovations Index: 1988-103387**

## Research programs with industrial companies

### Project director

- 2006** *Report of Security* (2006), beneficiary: SC Storsack SA Botosani, Romania
- 1999** *Studies on the possibility of intensification of hydrodynamic parameters in relation with mass transfer for some bioreactors of SC Antibiotice SA Iasi* (1999), beneficiary: SC Antibiotice SA Iasi, Romania
- 1999** *Rheology of biosynthesis liquids* (1999), beneficiary: SC Antibiotice SA Iasi, Romania
- 1994** *Optimization of hydrodynamic and mass transfer conditions in industrial bioreactors for Erythromycin-Nystatin biosynthesis.* Technical assistance for implementation of a new technology for penicillin G separation/purification (1994), beneficiary: SC Antibiotice SA Iasi, Romania
- 1992** *Improvement of hydrodynamic, mass transfer and energetic characteristics of some bioreactors through modifications of impeller blades* (1992), beneficiary: SC Antibiotice SA Iasi, Romania
- 1991** *Separation and purification of butanol from the homogeneous system butanol-water resulted from the fabrication process of Penicillin,* 1991, beneficiary: SC Antibiotice SA Iasi, Romania.
- 1991** *Characterization of the industrial bioreactors R2 - Section I-a - S.C. Antibiotice S.A. Iași* from geometrical, operational and biosynthesis performances points of view, with conventional and modified turbine impellers, 1991, beneficiary: SC Antibiotice SA Iasi, Romania.
- 1989-1990** *Study of solid-liquid separation applied on biosynthesis liquids and their processing (yield of the active substance)*, 1989-1990, beneficiary: Antibiotics Plant, Iasi, Romania
- 1989** *Characterization of some bioreactors from "Biostimulatori" sector, considering power input and mass transfer characteristics*, 1989, beneficiary: Antibiotics Plant, Iasi, Romania
- 1983-1990** *Unconventional fermenters for antibiotic biosynthesis*, 1983-1990, beneficiary: Antibiotics Plant, Iasi, Romania.

### Member of research groups

- 2000** *Environmental impact study for the objective: Modernization and relocation of the technological line for vegetable oil packing in PET bottles*, 2000, beneficiary: SC Unirea SA Iasi, Romania
- 1999** *Environmental evaluations by balances*, 1999, SC Petrom SA, Vaslui, Romania
- 1996** *Optimized technology for Vitamin B12 biosynthesis*, 1992, beneficiary: Antibiotics Plant, Iasi, Romania.
- 1996** *Technology for Streptomycin biosynthesis*, 1996, beneficiary: Antibiotics Plant, Iasi, Romania.
- 1994** *Improving the biosynthesis and separation/purification yields through laboratory selection and ingredients dosage*, 1994, beneficiary: Antibiotics Plant, Iasi, Romania.
- 1993** *Research and technical assistance for implementing new technologies (Erythromycin, Penicillin, Vitamin B12)*, 1993, beneficiary: Antibiotics Plant, Iasi, Romania.

- 1991** *Bacitracin 10% - Optimized technology*, 1991, beneficiary: Antibiotics Plant, Iasi, Romania
- 1988-1990** *Optimized technology for Penicilin G*, 1988-1990, beneficiary: Antibiotics Plant, Iasi, Romania.
- 1987-1990** *Optimized technology for Sineradol*, 1987-1990, beneficiary: Antibiotics Plant, Iasi, Romania
- 1984-1986** *Improved technology for Sineradol production*, 1984-1986, beneficiary: Antibiotics Plant, Iasi, Romania

## Research Grants

### National grants

#### Director of grants

- 2017-2019** *Exploring and Exploiting Microbial and Plant Abilities and Interactions in Environmental Bioremediation (BIOREMIP)*  
**PN-III-P4-ID-PCE-2016-0683, Contract 65/12.07.2017**  
30 months, 849.500 lei
- 2016-2018** *Strategies and solutions for process and product eco-design and eco-innovation based on recyclable materials in the context of circular economy (ECOINDE)*  
**PN-III-P2-2.1-BG-2016-0130**  
24 months, 458000 lei
- 2012** *Progress in Environmental Engineering, Biotechnology and Management in the Frame of Knowledge-Based Sustainable Economy, Exploratory Workshop*  
**PN-II-ID-WE-2012-4-062, contract 60/16.08.2012**  
24000 Lei
- 2011-2016** *Biosorption and bioaccumulation in the bioremediation of environmental compartments contaminated with persistent pollutants (BIOSACC)*  
**IDEI Programme, PN-II-ID-PCE-2011-3-0559, contract 265/5.10.2011**  
Duration: 60 months, 134000 lei
- 2007-2010** *Integrated studies on the behaviour of persistent pollutants and risks associated with their presence in the environment (PERSENVIR)*  
**Programme IDEI, grant ID\_595, contract 132/01.10.2007 (2007 -2010)**  
Duration: 36 months, 983000 Lei
- 2006** *Identification and analysis of strategies and technologies for pollution prevention and cleaner production as tools for sustainable development in production systems and services*  
**Grant CNCSIS A, Contract A1/GR 164/19.05.2006, Cod 511, theme 36**  
32500 RON
- 2005** *Identification and analysis of strategies and technologies for pollution prevention and cleaner production as tools for sustainable development in production systems and services*  
**Grant CNCSIS A, Contract 34664/24.06.2005, Cod 511, theme 27**  
225 mil. Lei
- 2004** *Identification and analysis of strategies and technologies for pollution prevention and cleaner production as tools for sustainable development in production systems and services*  
**Grant CNCSIS A, Contract 33371/2004, Cod 511, theme 23 si theme 13**  
130 mil. Lei
- 2003** *Modelling and simulation of some processes for depollution of fluid fluxes, in relation with transfer phenomena*  
**Grant CNCSIS A, Contract 33557/2003, Cod 317, theme 21**  
67500 mii lei
- 2002** *Modelling and simulation of some processes for depollution of fluid fluxes, in relation with transfer phenomena*  
**Grant CNCSIS A, Contract 33479/2002, Cod 385, theme 18**  
50 000 mii lei
- 2001** *Modelling and simulation of some processes for depollution of fluid fluxes, in relation with transfer phenomena*

**Grant CNCSIS A, Contract 32259/2001, Cod 305, theme 25**  
42400 mii lei

- 2000** *Earth Day 2000*  
**Grant No. 27E107/2000,**  
Funded by the Ecumenic Association of Romanian Churches – AIDRom
- 1997-1998** *Research on performance evaluation, scale up and energetic efficiency of some unconventional reactors for antibiotic biosynthesis* (1997 -1998), beneficiary: Ministry of Science and Technology
- 1996-1998** *Research on obtaining, physico-chemical characterization and optimization of the characteristics of biosynthesis liquid components* (1996) -1998, beneficiary: Ministry of Science and Technology
- 1992-1997** *Separation processes in antibiotics industry* (1992). -1997, beneficiary: Ministry of Science and Technology
- 1992-1997** *Transfer phenomena in polydisperse systems* (1992). -1997, beneficiary: Ministry of Science and Technology
- 1991** *Investigation on specific engineering parameters for cultivation of microorganism for antibiotic biosynthesis and their individualization at laboratory-pilot-industrial scales*, 1991, beneficiary: Department of Chemical and Petrochemical Industry, Ministry of Industries

**Member of research groups**

- 2017-2019** *Utilization of biomass wastes from biofuel production in heavy metals biosorption processes with applications in environmental bioremediation*  
**PN-III-P4-ID-PCE-2016-0500**  
30 months, 850000 lei, Director: Dr. habil. Laura Bulgariu
- 2017-2018** *Modeling of pesticide dynamics in plant products and estimation of risks to human health (MODPEST)*,  
**PN-III-P2-2.1-PED-2016-1662**, Contract nr. 10PED/2017  
18 months, 595.000 lei, Director: Dr. Raluca Maria Hlihor
- 2006-2008** *Integrated network for sustainable management of water resources, SIWMANET*  
**EXCELENCE GRANT, Module II project**, director Prof. C. Teodosiu, "Gheorghe Asachi" Technical University of Iasi, Romania.  
Contract 115/01.08.2006. (2006). -2008, 115000 RON, director: prof. Carmen Teodosiu
- 2006** *Formation of human resources-Projects management*  
**EXCELENCE GRANT, Module III**, Course provider: Department of Programmes, "Gheorghe Asachi" Technical University of Iasi, Romania, beneficiary: SC Rulmentul SA Barlad, Romania (2006). -2007, contract 6150/2006, 18000 RON, Director, conf. Dumitru Nedelcu
- 2006** *Formation of human resources-Projects management*  
**EXCELENCE GRANT, Module III**, Course provider: Department of Programmes, "Gheorghe Asachi" Technical University of Iasi, Romania, beneficiary: SC Antibiotice SA Iasi, Romania (2006). -2007, contract 6151/2006, 18000 RON, Director: conf. Dumitru Nedelcu
- 2005-2008** *Experimentation and improvement of the technology of biological improvement of apple plantations, in the view of a favorable environmental and health impact*,  
**EXCELENCE GRANT, Module I**, 2005-2008 Cod MEC: PC-D02-PT00-598, contract 26/2005, 1.156.000 RON Coordinator: Institute for Biological Research Iași, Director: dr.biol. Alecu Diaconu subcontract UTI 4/2005, Responsible: Lecturer dr. biol. Mariana Diaconu, "Gheorghe Asachi" Technical University of Iasi, Romania.
- 2005-2008** *Technologies for advanced treatment of industrial effluents for recycling - RIWA-TECH, 2005-2008*  
**EXCELENCE GRANT, Module I**, Cod MEC: PC-D06-PT25-153, contract 62/03.10.2005, Director: Prof.dr.eng. Carmen Teodosiu, "Gheorghe Asachi" Technical University of Iasi, Romania.
- 2004-2006** *Reduction of the content of mycotoxins from mais by applying different crop protection technologies*  
**Program AGRAL**, Contract 363/2004-2006  
Contract 363/2004-2006, 200000 RON, Partener UTI: 100.000 RON  
Director: Lecturer dr.biol. Mariana Diaconu, "Gheorghe Asachi" Technical University of Iasi, Romania.
- 2006** *Eco-design of processes, products and services in connexion with environmental components, in the context of sustainable development*  
**Grant CNCSIS A**, Contract 63 GR/19.05.2006, cod CNCSIS 288, theme 17

Director: prof. Matei Macoveanu, Membru în echipa de cercetare  
35000 RON

<b>2005</b>	<i>Environmental bioremediation applying processes from chemical engineering and biotechnology</i> <b>Grant CNCSSIS A</b> , Contract 34664/24.06.2005, Cod 774, theme 35 Director: Prof. dr.eng. Matei Macoveanu 175 mil. lei
<b>2004</b>	<i>Environmental bioremediation applying processes from chemical engineering and biotechnology</i> <b>Grant CNCSSIS A</b> , Contract 33371/2004, Cod 774, theme 63 si theme 23 100 000 mii lei + 30 000 mii lei suplement Director: Prof. dr. eng. Matei Macoveanu
<b>2003</b>	<i>Environmental bioremediation applying processes from chemical engineering and biotechnology</i> <b>Grant CNCSSIS A</b> , Contract 40222/2003, Cod 316, theme 13 82 500 mii lei Director: Prof. dr. eng. Matei Macoveanu

## International Grants

### *Member of research groups*

<b>2014-2016</b>	<i>EEA Financial Mechanism 2009 - 2014 under the project "Towards a better protection of children against air pollution threats in the urban areas of Romania" contract no. 20SEE/30.06.2014</i> (Romania-Norway), Member of the research group of the Romanian partner
<b>2008-2011</b>	<i>Recovered paper sorting with innovative technologies-SORTIT,</i> <b>Project FP7</b> , coordonator, Germania, Grant agreement no.: 211888, 245000 Euro Member of the parner group "Gheorghe Asachi" Technical University of Iasi, Romania, Responsible: Prof. Elena Bobu
<b>2007</b>	<i>Some effects of high-frequency electromagnetic radiations used in radio communication on the cultivated plants growing</i> <b>Grant (B.EN.A.) – COSMOTE/2007</b> Beneficiary : COSMOTE Grecia, B.EN.A. International, Valoare: 3900 Euro, director of project: Conf. Igor Crețescu
<b>2005-2007</b>	<i>Management and security assesment for sustainable environment,</i> <b>Grant SOCRATES /MOD</b> MASS, 51388-IC-2004-RO-ERASMUS-MODUC-6, 2005-2007, 8000 Euro (24 luni), director UTI C.Teodosiu
<b>2002-2007</b>	<i>Knowledge transfer and institutional capacity building for cleaner production in Romania</i> <b>Grant finantat de Swedish Institute Stockholm</b> (2002-2007), Director program: Thomas Lidhqvist, IIIEE Lund, Suedia, director TUI: prof. Matei Macoveanu
<b>2003-2005</b>	<i>Improving science shop networking</i> <b>Project FP5, Program ISSNET/EU</b> , Projetc No. HPRP-CT-2002-00011 2003 - 2005, Director grant: Caspar de Bok, Utrecht University, Olanda, director TUI: prof. Carmen Teodosiu

## **Products and technologies as result of research, based on patents, type-approvals or innovations, applied in the production process**

- 1.** *Optimized technology for B12 vitamin production*  
Beneficiary: S.C. Antibiotice S.A. Iași
- 2.** *Tehnology for streptomycin biosynthesis*  
Beneficiary: S.C. Antibiotice S.A. Iași
- 3.** *Bacitracin 10% - Optimized technology*  
Beneficiar: S.C. Antibiotice S.A. Iași
- 4.** *Optimized technology for Penicillin G*  
Beneficiary: S.C. Antibiotice S.A. Iași

5. *Optimized technology for Sineradol*  
Beneficiary: S.C. Antibiotice S.A. Iași
6. *Open turbine impeller for heterogeneous systems*  
Beneficiary: S.C. Antibiotice S.A. Iași
7. *Procedure for filtration of antibiotic biosynthesis liquids*  
Beneficiary: S.C. Antibiotice S.A. Iași
8. *Procedure for purification of NaOH solutions*  
SC Antibiotice SA Iași, Centrul de Cercetări pentru Antibiotice, Iași

## Organizer of conferences, workshops, member în scientific committees

### 2019

**International Conference on Environmental Engineering and Management, ICEEM10**, Iasi, 18-21 September 2019

**International Symposium „Energy and Environment”**, 15 November 2019, Cluj-Napoca, Romania

**Euroinvent 2019**, 16-18 May 2019, Iasi, Romania, <http://www.euroinvent.org/committees/scientific-committee/>

### 2018

**ELSEDIMA 2018**, 17-19 May, 2018, Cluj-Napoca, <http://www.elsedima.ro/index.php?page=static&pageid=120>

**Euroinvent 2018**, 17-19 May 2018, Iasi, Romania, <http://www.euroinvent.org/cat/e2018.pdf>

**SICHEM 2018**, 6-7 September 2018, Bucharest, Romania, [http://sicr.ro/wp-content/uploads/2018/06/Second-Announcement-SICHEM\\_2018-GI-1.pdf](http://sicr.ro/wp-content/uploads/2018/06/Second-Announcement-SICHEM_2018-GI-1.pdf)

**ICCE 2018**, 4th International Conference on Chemical Engineering (ICCE 2018) - Innovative Materials and Processes for a Sustainable Development, 31 October-2 November, 2018, Iasi, Romania, <http://www.cercetare.icpm.tuiasi.ro/conferinte/ICCE2018/committees.html>

**7th European Bioremediation Conference (EBC-VII) and the 11th International Society for Environmental Biotechnology conference (ISEB 2018)**, 25-28 June, Crete, Greece  
<https://www.ebc-vii.tuc.gr/en/committees/scientific-committee/>

### 2017

1. **Conference on Sustainable Energy, CSE**, 2017, October 19-21, Brasov, Romania
2. **International Conference on Environmental Engineering and Management, ICEEM09**, Bologna, Italy, 6-9 September 2017
3. **8th International Conference on Energy and Environment, CIEM 2017**, 18-20 October 2017, University Politehnica of Bucharest, Romania.

### 2016

4. **2016 ISEB Conference** (International Society for Environmental Biotechnology, <http://www.iseb2016.com>), June 1st to 3rd, 2016, Barcelona, Spain.
5. **FBASM 2016**, Faculty of Biology, "Alexandru Ioan Cuza" University of Iași, Romania, October 20-22, 2016. <http://www.bio.uaic.ro/sesiune/2016/pages/organization.html>
6. International Conference – **Towards a Sustainable Urban Environment (EBUILT-2016)**, marking 75 years of Civil Engineering higher education in Romania, "Gheorghe Asachi" Technical University of Iasi, 16-19 November, 2016
7. **SICHEM 2016**, 8-9 September, Bucharest, Romania
8. **ICCE 2016, International Conference on Chemical Engineering**, Iasi, Romania, 2016
9. **Energy and Environmental Knowledge Week Congress E2KW**, 26-28 October, 2014, Paris

**2015**

10. **The 7th International Conference on Energy and Environment**, CIEM 2015, 22-23 October, Iasi, Romania
11. Fall Scientific Session of the Academy of Romania Scientists „**The role of academic institutions in the renaissance and development of economic, social and cultural Romania**“ 24-26 September, 2015 Iasi, Romania
12. **8th International Conference on Environmental Engineering and Management**, Iasi, 9-12 September, 2015
13. 11th International Conference **Constructive and Technological Design Optimization in the Machines Building Field** OPROTEH 2015, 4-6 June 2015, Bacau, Romania
14. **6th European Bioremediation Conference**, 29 June -2 July 2015, Chania, Crete, Greece
15. 10th National Symposium with International Participation “**Environment and Progress**” 29-30 October 2015, University Babes Bolyai of Cluj Napoca, Romania.

**2014**

16. **4th International Symposium on Environmental Biotechnology and Engineering**, 9-12, September 2014, Cinvestav, Mexico City, Mexico
17. 2nd International Conference on Chemical Engineering, **ICCE2014**, 5-8 November 2014, Iasi, Romania
18. **Conference for Sustainable Energy** (CSE), 6-8 November 2014, Brasov, Romania
19. 3rd International Conference, **Advances In Engineering & Management**, 11-12 September 2014, Craiova, Romania
20. Second International Conference on Natural and Anthropic Risks, **ICNAR2014**, 4-7 June 2014, Bacau, Romania
21. 10th International Conference on Environmental Legislation, Safety Engineering and Disaster Management, **ELSEDIMA**, 18-19 September 2014,Cluj-Napoca, Romania

**2013**

22. 7th International Conference on Environmental Engineering and Management “**Integration Challenges for Sustainability**” Vienna, 18-21 September, 2013
23. Conference CIEM 2013, „**Green and Smart Energy**”, Bucharest, University Polytechnica, 7-8 November, 2013
24. 9th National Symposium with International Participation “**Environment and Progress**” 25 October 2013, University Babes Bolyai of Cluj Napoca, Romania, <http://enviro.ubbcluj.ro/evenimente/environment&progress%202013.php>
25. **ESEIA Summer School, Sustainable Smart Metropolitan Regions**, 15 – 28 July 2013, Transilvania University of Brasov, Romania
26. **8th Conference on Sustainable Development of Energy, Water and Environment Systems, SDEWES 2013**, September 22-27, Dubrovnik, Croatia.
27. **The First International Conference 3E – Energy, Environment and Efficiency, IWEEE 2013**, Galati, Romania, 18-21 September 2013. <http://www.iweee.ugal.ro/index.php/committees>

**2012**

28. *Progress in Environmental Engineering, Biotechnology and Management in the Frame of Knowledge-Based Sustainable Economy, Exploratory Workshop*, September, 19-21, 2012, Iasi, Romania
29. **100th Anniversary of Faculty of Chemical Engineering and Environmental Protection**, International Conference - Centenary of Education in Chemical Engineering, November 28-30, 2012, Iasi, Romania
30. **First International Conference on MOLDAVIAN RISKS - FROM GLOBAL TO LOCAL SCALE** 16-19 May, 2012, University Vasile Alecsandri, Bacau, Romania
31. **ELSEDIMA** International Conference, 9th Edition, University Babes-Bolyai, Cluj Napoca, 25-27<sup>th</sup> October, 2012, <http://elsedima.conference.ubbcluj.ro/>

- 32. **7th Conference on Sustainable Development of Energy, Water and Environment Systems, SDEWES 2012**, July 1-7, Ohrid, Rep. of Macedonia, <http://www.ohrid2012.sdwes.org/>
- 33. ***Environmental Microbiology and Biotechnology in the Frame of the Knowledge-Based Bio and Green Economy, Conference, EMB-2012***, 10-12 April, 2012, Bologna, Italy
- 34. ***Quality Management in Higher Education QMHE 2012***, Iasi, Romania, 16-17 November.

## **2011**

- 35. ***Sixth International Conference on Environmental Engineering and Management ICEEM 06***, 1 – 4 September 2011, Balatonalmádi, Hungary, Chair person on Impact, risk and life-cycle assesment session; Managing Editor for *Proceedings of the Conference*
- 36. ***The 3rd IASTED International Conference on Environmental Management and Engineering, EME 2011***, July 4 – 6, 2011, Calgary, AB, Canada
- 37. ***6th Dubrovnik Conference on Sustainable Development of Energy, Water and Environment System***, September 25-29, 2011, Dubrovnik, Croatia

## **2010**

- 38. ***The Second IASTED International Conference on Environmental Management and Engineering, EME 2010***, July 15 – 17, 2010, Banff, Alberta, Canada
- 39. ***International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, IC-ANMBES June 18-20, 2010***, Brasov

## **2009**

- 40. ***Fifth International Conference on Environmental Engineering and Management, 15-19 Septembrer 2009***, Tulcea, Romania
- 41. ***International Conference on Engineering, Environment, Economics, Safety and Health 2009 (CONVEESH'09)***, October 26-27, 2009, Organizaæed by the Faculty of Technical, Universitas Sam Ratulangi, Manado in Indonesia in Colaboration with Sustainable Architecture and Environment (SENVAR 10th, 2009), Manado, North Sulawesi, Indonesia
- 42. ***5th Dubrovnik Conference on Sustainable Development of Energy, Water and Environment System***, September 30-October 3, 2009, Dubrovnik, Croatia
- 43. ***BRAMAT***, International Conference on Materials Science & Engineering, 26 – 28 February 2009, University Transilvania Brasov, Romania

## **2008**

- 44. ***The Fifth International Symposium „Advanced Technologies for Pulp and Paper Industry and Environment“***, 3 – 5 September 2008, organized by CEPROHART S.A. Braila and Technical Association for Pulp and Paper Industry (**ATICHR**)

## **2007**

- 45. ***Process Engineering and Pollution Prevention***, workshop organized by the Department of Environmental Engineering and Management of Technical University of Iasi, Romania and Department of Chemical Engineering, Institute fur Verfahrenstechnik, Umwelttechnik und Techn. Biowissenschaften, Vienna University of Technology 24 – 30 August 2007
- 46. ***Fourth International Conference on Environmental Engineering and Management***, 12-15 September 2007, member of Organizing Committee and of *International Scientific Committee*, Managing Editor for *Proceedings of the Conference*

## **2006**

- 47. ***Third International Conference on Environmental Engineering and Management***, 21-24 September 2006, *International Scientific Committee*, co-chairman, Managing Editor for *Proceedings of the Conference*
- 48. ***Workshop "SIWMANET"***, Octombrie, Iasi, Romania
- 49. ***Process Integration and Design for Pollution Prevention***, Workshop organized by the Department of Environmental Engineering and Management, Technical University Iasi and the Department of Biological Engineering, University Minho, Portugal, June 2006.

- 50.** ***Environmental communication, reporting and transparency in Romania***, Workshop organized by the Department of Environmental Engineering and Management, Technical University Iasi and IIIEE, Lund, Sweden, Iasi, May 2006

**2005**

- 51.** ***2<sup>nd</sup> Living Knowledge Conference: "Advancing Science and Society Interactions"***, Seville 3-5 February 2005, Spain
- 52.** ***Management and environmental policy for sustainable production and consumption***, Workshop organized by the Department of Environmental Engineering and Management, Technical University Iasi and IIIEE, Lund, Sweden, Iasi, 28-29 October, 2005
- 53.** ***Image Analysis Applications in Biological Wastewater Treatment Process***, Workshop organized by the Department of Environmental Engineering and Management, Technical University Iasi and the Department of Biological Engineering, University Minho, Portugal, April 2005.
- 54.** ***Eco-certification in tourism***, Workshop, organized by the Department of Environmental Engineering and Management and IIIEE Lund, Sweden, Research Center for Tourism, Campulung Moldovenesc, April 2005
- 55.** ***Funding Opportunities at National Level***, Department of Projects Management, Technical University Iasi, March, 2005

**2004**

- 56.** ***European Summer School Human Environment: Energy, Forests, Health and Society***, organized by University Henry Poincaré Nancy, University Nancy 1 and „Gheorghe Asachi” Technical University of Iasi, 3-10 September 2004, Nancy, France.
- 57.** ***Second International Conference on Environmental Engineering and Management***, 23-26 September 2004, co-chairman, member of the Scientific Advisory Board, Managing Editor for Proceedings of the Conference
- 58.** ***Eco-Design and Product Innovations***, Department of Environmental Engineering and Management and IIIEE Lund, Sweden, 2004, Iasi, Romania
- 59.** ***Waste management***, Department of Environmental Engineering and Management and IIIEE Lund, Sweden, 2004, Iasi, Romania
- 60.** ***Sustainable Tourism - Certification – Ecolabelling***, Department of Environmental Engineering and Management and IIIEE Lund, Sweden, 2004, Iasi, Romania

**2002**

- 61.** ***First International Conference on Environmental Engineering and Management***, 26-28 September 2002, member of the Organizing Committee and of Scientific Advisory Board, Managing Editor for *Proceedings of the Conference*
- 62.** ***The Third Conference of the Faculty of Industrial Chemistry Iasi***, 13-15 November 2002, Iasi, Romania, secretary of the Organizing Committee and Managing Editor for *Proceedings of the Conference*

**2000**

- 63.** ***Earth Day***, Studentship Scientific Communications, May 1999-May 2002.

**1989**

- 64.** ***The 8<sup>th</sup> Session for Scientific Communications: Actualities in Drug Research, Production and Use***, Research Center for Antibiotics, Iasi, Romania, 25-26 May, 1989

**1986**

- 65.** ***Sessions for Scientific Research Reports Communications***, Research Center for Antibiotics, Iasi, Romania, May, 1985-1986.

**1984**

- 66.** ***Sessions for Scientific Research Reports Communications***, Research Center for Antibiotics, Iasi, Romania, May, 1984.

## **Erasmus and Erasmus+ Agreements**

<b>Period</b>	<b>Partner</b>
2011-2014	University Maribor, Slovenia
2011-2014	University of Study dell'Insubria, Varese, Italy,
2010-2013	University of Study, <i>Federico II</i> , Naples, Italy,
2010-2013	<i>Alma Mater Studiorum</i> University of Study, Bologna, Italy,
2009-2014	Twente University Netherlands,
2008-2013	University Minho, Portugal,
2014-2021	University Minho, Portugal,
2014-2021	University of Natural Resources and Life Sciences, Austria
2014-2021	Technical University of Crete, Grecia
2014-2021	Universidade do Minho, Portugalia
2014-2021	University of Maribor, Slovenia
2014-2021	Hacettepe University Ankara, Turcia
2014-2021	Karabuk University, Turcia
2014-2017	Twente University Netherlands,
2014-2021	University of Study, <i>Federico II</i> , Naples, Italy,
2014-2021	<i>Alma Mater Studiorum</i> University of Study, Bologna, Italy
2017-2020	University of Applied Sciences, Northwestern Switzerland, Muttenz, Switzerland – <b>Swiss-European Mobility Programme</b>
2019-2021	Twente University Netherlands,
2018-2021	University Vigo, Spain
2019-2021	University Almeria, Spain
2019-2021	National Technical University, Athene, Grecia

## **Scientific publications elaborated and coordinated as Editor**

***Environmental Engineering and Management Journal (Managing Editor/Editor-in-Chief), ISSN 1582-9596***  
<http://omicron.ch.tuiasi.ro/EEMJ/>

<b>2019</b>	<b><i>Vol. 18</i></b>	<b><i>12 issues per year</i></b>
<b>2018</b>	<b><i>Vol. 17</i></b>	<b><i>12 issues per year</i></b>
<b>2017</b>	<b><i>Vol. 16</i></b>	<b><i>12 issues per year</i></b>
<b>2016</b>	<b><i>Vol. 15</i></b>	<b><i>12 issues per year</i></b>
<b>2015</b>	<b><i>Vol.14</i></b>	<b><i>12 issues per year</i></b>
<b>2014</b>	<b><i>Vol.13</i></b>	<b><i>12 issues per year</i></b>
<b>2013</b>	<b><i>Vol.12</i></b>	<b><i>12 issues per year</i></b>
<b>2012</b>	<b><i>Vol.11</i></b>	<b><i>12 issues per year</i></b>
<b>2011</b>	<b><i>Vol.10</i></b>	<b><i>12 issues per year</i></b>
<b>2010</b>	<b><i>Vol.9</i></b>	<b><i>12 issues per year</i></b>
<b>2009</b>	<b><i>Vol. 8</i></b>	<b><i>6 issues per year</i></b>
<b>2008</b>	<b><i>Vol. 7</i></b>	<b><i>6 issues per year</i></b>
<b>2007</b>	<b><i>Vol. 6</i></b>	<b><i>New Format (A4), 6 issues per year</i></b>
<b>2006</b>	<b><i>Vol. 5</i></b>	<b><i>6 issues per year</i></b>
<b>2005</b>	<b><i>Vol. 4</i></b>	<b><i>4 issues per year</i></b>
<b>2004</b>	<b><i>Vol. 3</i></b>	<b><i>4 issues per year</i></b>
<b>2003</b>	<b><i>Vol. 2</i></b>	<b><i>4 issues per year</i></b>
<b>2002</b>	<b><i>Vol. 1</i></b>	<b><i>4 issues per year</i></b>

<b>2019</b>	<b>Vol. 6</b>	<b>4 issues per year</b>
<b>2018</b>	<b>Vol.5</b>	<b>4 issues per year</b>
<b>2017</b>	<b>Vol.4</b>	<b>4 issues per year</b>
<b>2016</b>	<b>Vol. 3</b>	<b>4 issues per year</b>
<b>2015</b>	<b>Vol.2</b>	<b>4 issues per year</b>
<b>2014</b>	<b>Vol.1</b>	<b>2 issues per year</b>

**Annals of the Academy of Romanian Scientists - Series on Chemistry Sciences  
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<http://aos.ro/editura/analeleaosr/annals-on-chemistry/>

**Since 2016: Series of Physics and Chemistry**

<b>2018</b>	<b>Vol. 4</b>	<b>No. 2</b>	<b>Series of Physics and Chemistry</b>
<b>2018</b>	<b>Vol. 3</b>	<b>No. 2</b>	<b>Series of Physics and Chemistry</b>
<b>2017</b>	<b>Vol. 2</b>	<b>No. 2</b>	<b>Series of Physics and Chemistry</b>
<b>2016</b>	<b>Vol 1.</b>	<b>No. 1</b>	<b>Series of Physics and Chemistry</b>
<b>2015</b>	<b>Vol.2</b>	<b>No. 2</b>	<b>Series of Chemistry</b>
		<b>No. 1</b>	<b>2 issues per year</b>
<b>2014</b>	<b>Vol.1</b>	<b>No. 2</b>	<b>Series of Chemistry</b>
		<b>No.1</b>	<b>2 issues per year</b>

**Buletinul Institutului Politehnic din Iasi (Bulletin of the Polytechnic Institute of Iasi) (Series Editor) ISSN 0254-7104**

**2000** Tome XLVI (L), Fasc. 1-2  
Tome XLVI (L), Fasc. 3-4

**2001** Tome XLVII (LI), Fasc. 1-2  
Tome XLVII (LI), Fasc. 3-4

**2002** Tome XLVIII (LII), Fasc. 1-2  
Tome XLVIII (LII), Fasc. 3-4

**2003** Tome XLIX (LIII), Fasc. 1-2  
Tome XLIX (LIII), Fasc. 3-4  
**Tome XLIX (LIII), Fasc. 5**, Chemistry and Chemical Engineering (2003), Proceedings of the Third Conference of The Faculty of Industrial Chemistry. IAŞI, 13-15 November (2002), 78 papers, 480 pags.

**Position papers on the major R&D priorities of the Group of Experts of Environmental Biotechnology Section – European Federation of Biotechnology**

**2011- 2012 R&D needs in the field of biomonitoring, evaluation of the ecological risk, and bioremediation of emerging chemical (pharmaceuticals, endocrine disruptors, hormones, viruses, toxins etc.) and biological (bacteria, viruses) micropollutants in soils, sediments, groundwater, industrial and municipal wastewaters, aquaculture**

**Maria Gavrilescu**, Katerina Demnerova, Jens Aamand, Spyros Agathos

On line at: [http://www.efb-central.org/images/uploads/PP\\_emergingpollutants\\_26.02.2012.pdf](http://www.efb-central.org/images/uploads/PP_emergingpollutants_26.02.2012.pdf)

## **Newsletters**

- 2009 **SORT IT, Recovered paper SORTing with Innovative Technologies, Newsletter 1/2009**, On line:  
[http://www.sortit.eu/index.php?option=com\\_rokdownloads&view=file&Itemid=129&id=7:nl-12009-com](http://www.sortit.eu/index.php?option=com_rokdownloads&view=file&Itemid=129&id=7:nl-12009-com)
- 2010 **SORT IT, Recovered paper SORT Ing with Innovative Technologies, Newsletter 2/2010**, On line:  
[http://www.sortit.eu/index.php?option=com\\_rokdownloads&view=file&Itemid=129&id=8:nl22010](http://www.sortit.eu/index.php?option=com_rokdownloads&view=file&Itemid=129&id=8:nl22010)
- 2011 **SORT IT, Recovered paper SORT Ing with Innovative Technologies, Newsletter 3/2011**, On line:  
[http://www.sortit.eu/index.php?option=com\\_rokdownloads&view=file&Itemid=129&id=29:nl32010](http://www.sortit.eu/index.php?option=com_rokdownloads&view=file&Itemid=129&id=29:nl32010)
- 2011 **BIOSACC, Biosorption and bioaccumulation in the bioremediation of environmental compartments contaminated with persistent pollutants" Newsletter 1/2011**, On line:  
<http://biosacc.xhost.ro/pdf/Newsletter BIOSACC 1 2011.pdf>
- 2012 **BIOSACC, Biosorption and bioaccumulation in the bioremediation of environmental compartments contaminated with persistent pollutants" Newsletter 2/2012**, On line:  
<http://biosacc.xhost.ro/pdf/Newsletter BIOSACC 2 2012.pdf>
- 2013 **BIOSACC, Biosorption and bioaccumulation in the bioremediation of environmental compartments contaminated with persistent pollutants" Newsletter 3/2013**, On line:  
<http://biosacc.xhost.ro/pdf/Newsletter BIOSACC 2 2012.pdf>
- 2014 **BIOSACC, Biosorption and bioaccumulation in the bioremediation of environmental compartments contaminated with persistent pollutants" Newsletter 4/2014**, On line:  
<http://biosacc.xhost.ro/pdf/Newsletter BIOSACC 2 2012.pdf>
- 2015 **BIOSACC, Biosorption and bioaccumulation in the bioremediation of environmental compartments contaminated with persistent pollutants" Newsletter 5/2015**, On line:  
<http://biosacc.xhost.ro/pdf/Newsletter BIOSACC 5 2015.pdf>
- 2016 **BIOSACC, Biosorption and bioaccumulation in the bioremediation of environmental compartments contaminated with persistent pollutants" Newsletter 6/2016**, On line:  
<http://biosacc.xhost.ro/pdf/Newsletter BIOSACC 6 2016.pdf>

January, 2020

Professor Maria Gavrilescu

