

**Europass
Curriculum Vitae**

INFORMAȚII PERSONALE

Numele și prenumele

Maria GAVRILESCU

Adresa

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Nationalitate

Română

POZITIA
Profesor
Departamentul Ingineria și Managementul Mediului, Facultatea de Inginerie Chimică și Protecția Mediului – Universitatea Tehnică "Gheorghe Asachi" din Iași
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, biotehnologii în protecția mediului, riscuri ecologice și pentru sănătatea umană, reducerea poluării la sursă și minimizarea pierderilor (valorificarea și managementul deșeurilor, producție industrială durabilă, ecoproiectare, 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, cotate 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 România, 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 experți ai *European Federation of Biotechnology*, secțiunea *Environmental Biotechnology*
- referent științific a numeroase reviste de specialitate naționale și internaționale;
- organizarea și coordonarea de sesiuni științifice studentești
- coordonarea activității unor cercuri științifice studentești
- 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
- director al departamentului de cercetare științifică/coordonator al Centrului de Cercetare *Ingineria mediului și evaluarea impactului*, al Universității Tehnice „Gheorghe Asachi” din Iași, acreditat CNCSIS

Numele și adresa angajatorului	<ul style="list-style-type: none"> - 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” din Iași - 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 - referent în comisii de pregătire a doctoratului și în comisii de evaluare a tezelor de doctorat - membru/președinte al comisiei de susținere a examenului de licență/diplomă - membru în comisia de susținere a lucrărilor de disertație - membru în comisia de admitere a facultății - membru în comisii de acordare a titlului de Doctor Honoris Causa al 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 școlii doctorale de Ingineria mediului la Universitatea Tehnică „Gheorghe Asachi” din Iași, rapoarte de cercetare etc.) 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 Funcția sau postul ocupat Principalele activități și responsabilități	1 Octombrie 1998 - 30 Septembrie 2000 Conferențiar universitar <ul style="list-style-type: none"> - activitate didactică la ciclurile de licență și masterat, cursuri postuniversitare (cursuri, lucrări practice, seminarii și proiecte); - cercetare științifică în domenii precum: ingineria proceselor chimice și biologice, ingineria mediului, biotehnologii în protecția mediului, - director al unor granturi de cercetare la nivel național - gestiunea unor proiecte de cercetare - expert evaluator pentru programe naționale de cercetare lansate sub egida Ministerului Educației și Cercetării (CNCSIS, ANSTI); - organizarea și coordonarea de sesiuni științifice studentești - coordonarea activității unor cercuri științifice studentești - organizator al unor manifestări științifice naționale și internaționale și membru în comitetele științifice - coordonator științific pentru proiecte de diplomă și lucrări de disertație (cursuri de zi și învățământ deschis la distanță) - membru în biroul de conducere al Catedrei Ingineria și Managementul Mediului - 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) - membru al comisiilor de susținere a examenului de diplomă și a lucrărilor de disertație (cursuri de zi și învățământ deschis la distanță) - membru în comisia de admitere a facultății - referent în comisii de pregătire a doctoratului și în comisii de evaluare a tezelor de doctorat - referent științific pentru reviste de specialitate naționale și internaționale; Universitatea Tehnică “ <i>Gheorghe Asachi</i> ” din Iași, Romania (Facultatea de Inginerie Chimică, Catedra Ingineria Mediului), Bd. Mangeron 71, 700050, Iași, Romania
Perioada Funcția sau postul ocupat Principalele activități și responsabilități	1 martie 1996- 30 septembrie 1998 Cercetător științific principal grad II (echivalent conferențiar universitar) <ul style="list-style-type: none"> - responsabil al colectivului de cercetare <i>Ingineria proceselor biotehnologice</i> - 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 - gestiunea și finalizarea unor proiecte de cercetare - microproducție - elaborarea și susținerea publică a tezei de doctorat: Studiul curgerii sistemelor terogene în reactoare de tipul gaz-lift (iunie, 1997); - studii, cercetări și asistență tehnică în cadrul unor contracte de cercetare privind implementarea unor noi tehnologii de biosinteză (eritromicină, penicilina, vitamina B12, streptomcina); - activități de predare ca profesor asociat la Facultatea de Inginerie Chimică din cadrul Universității Tehnice Gheorghe Asachi din Iași, Catedra Ingineria Mediului. Institutul de Cercetări Chimico-Farmaceutice, București – Centrul de Cercetări pentru Antibiotice Iași, șos. Valea Lupului nr. 1, Iași, Romania

Perioada	1 noiembrie 1990 – 29 februarie 1996
Funcția sau postul ocupat	Cercetător științific principal grad III (echivalent șef lucrări)
Principalele activități și responsabilități	<ul style="list-style-type: none"> - responsabil al colectivului <i>Ingineria proceselor biotehnologice</i> - 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; - elaborarea și managementul unor proiecte de cercetare - studii privind performanțele (timp de amestecare, dispersia fazelor, transferal 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 biosinteza unor antibiotice - sisteme de agitare mici consumatoare de energie pentru sisteme eterogene (gaz-lichid-solid) - transpunerea la scară a bioreactoarelor și bioprocесelor - studii privind reologia lichidelor de biosinteză; - studii, cercetări și asistență tehnică în cadrul unor contracte de cercetare privind implementarea unor noi tehnologii de biosinteză (eritromicină, penicilina, vitamina B12, streptomicina); - 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.
Numele și adresa angajatorului	Institutul de Cercetări Chimico-Farmaceutice, București – Centrul de Cercetări pentru Antibiotice Iași, șos. Valea Lupului nr. 1, Iași, Romania
Perioada	1 iunie 1988 - 31 octombrie 1990
Funcția sau postul ocupat	Cercetător științific (echivalent asistent universitar)
Principalele activități și responsabilități	<ul style="list-style-type: none"> - responsabil al colectivului de cercetare, <i>Ingineria proceselor biotehnologice</i> - gestiunea și finalizarea unor proiecte de cercetare - microproducție - cercetare în domeniul fenomenelor de transfer de impuls, masă și căldură în sisteme eterogene, newtoniene, de tipul lichidelor de biosinteză a antibioticelor - studiul sistemelor de agitare convenționale și neconvenționale pentru bioreactoarele aplicate în biosinteza antibioticelor - studiul corelației dintre necesarul de oxigen al microorganismelor aerobe și condițiile de cultivare la scară laborator, pilot și industrială - 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); - studii și cercetări în cadrul unor contracte de cercetare privind optimizarea tehnologiei de biosinteză a Penicilinei G (la scară pilot și 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	4 august 1983 – 31 mai 1988
Funcția sau postul ocupat	Inginer chimist
Principalele activități și responsabilități	<ul style="list-style-type: none"> - cercetare în cadrul colectivului "Ingineria proceselor biotehnologice" - metode de determinare a necesarului de oxigen al unor microorganisme aerobe aplicate în biosinteza 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, condiționare, 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	1981-1983
Funcția sau postul ocupat	Inginer chimist
Principalele activități și responsabilități	Sef formație de lucru
Numele și adresa angajatorului	Combinatul de Fibre Artificiale Brăila și Combinatul de Fibre Sintetice Iași, Romania

**EDUCAȚIE, FORMARE,
 PREDARE, SCHIMBURI DE
 EXPERIENȚĂ**

Perioada	2009 - Training internațional privind unele concepte în știința și ingineria mediului, Iasi, România, 1-4 Iunie 2009
Activități desfășurate, titlu/calificare obținută	Formare în ingineria și managementul de mediu, estimarea și managementul riscurilor 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	2005 - <i>E-learning: formation des formateurs</i>
Activități desfășurate, titlu/calificare obținută	Trainer în procesul de învățare pe platforma de activități de e-learning (programare în C++, utilizare <i>Dreamweaver</i> , <i>Microsoft Frontpage</i>)
Numele și tipul organizației	<i>Universitatea Henry Poincare Nancy</i> , Asociația Universităților Francofone și Universitatea Tehnică <i>Gheorghe Asachi</i> din Iași
Perioada	2005 - <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 <i>Gheorghe Asachi</i> din Iași, Centrul pentru Cercetare în Turism <i>Bucovina</i> , Câmpulung Moldovenesc și International Institute of Industrial Environment Economics, Lund, Suedia
Perioada	2004 – <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 <i>Gheorghe Asachi</i> din Iași
Perioada	2004 – <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 <i>Gheorghe Asachi</i> din Iași și International Institute of Industrial Environment Economics, Lund, Sweden
Perioada	2004 – <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	2004 – <i>Managementul deșeurilor</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	2004 – <i>Auditor pentru sisteme de management al mediului, ISO 14001-1996</i>
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	2003 - How to Apply with Success in the Sixth Framework Programme (FP6)
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	2003 – Schimb de experiență privind curricula universitară
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	iunie-iulie 2000
Activități desfășurate, titlu/calificare obținută	Concurs public pentru ocuparea postului de profesor (Ingineria proceselor, Bazele sistemelor tehnologice)/ Profesor universitar
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	mai - iunie 1998
Activități desfășurate, titlu/calificare obținută	Concurs public pentru ocupare postului de conferențiar universitar (Ingineria proceselor, Bazele sistemelor tehnologice)/ Conferențiar universitar
Numele și tipul organizației	Universitatea Tehnică <i>Gheorghe Asachi</i> din Iași, Romania (Facultatea de Inginerie Chimică, Catedra Ingineria Mediului), Bd. Mangeron 71, 700050, Iași, Romania
Perioada	1989 – 1997 - Doctorand
Activități desfășurate, titlu/calificare obținută	Elaborarea și susținerea tezei de doctorat în domeniul <i>Inginerie chimică</i> cu tema <i>Studiul curgerii sistemelor eterogene în reactoare de tipul gaz-lift</i> , 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	Februarie 1996
Activități desfășurate, titlu/calificare obținută	Concurs/atestat pe post de cercetător științific principal grad II
Numele și tipul organizației	Institutul de Cercetări Chimico-Farmaceutice, București, Romania
Perioada	Octombrie 1990
Activități desfășurate, titlu/calificare obținută	Concurs/atestat pe post de cercetător științific principal grad III
Numele și tipul organizației	Institutul de Cercetări Chimico-Farmaceutice, București, Romania
Perioada	Iunie 1988
Activități desfășurate, titlu/calificare obținută	Concurs/atestat pe post de cercetător științific
Numele și tipul organizației	Institutul de Cercetări Chimico-Farmaceutice, București, Romania
Perioada	1987-1988, Curs de specializare postuniversitară în programarea minicalculatoarelor (FELIX-Mini)
Activități desfășurate, titlu/calificare obținută	Programare în limbajul Cobol, Gestiunea bazelor de date/ Certificat de absolvire - Programarea minicalculatoarelor, Seria A, Nr. 02270, din 01/08/1988 (5)
Numele și tipul organizației	Centrul Teritorial de Calcul Electronic Iași, Romania
Perioada	1986 – 1987, Curs postuniversitar intensiv de limba engleză
Activități desfășurate, titlu/calificare obținută	Limba și literatura engleză/ Diploma de absolvire, Seria B, Nr. 1206, din 20/04/1988 (206)

Numele și tipul organizației	Universitatea "Al.I. Cuza" din Iasi, Facultatea de Filologie, Romania
Perioada	1986 - 1987 – Curs intensive de <i>Analiza valorii</i>
Activități desfășurate, titlu/calificare obținută	Certificat de participare
Numele și tipul organizației	Institutul Politehnic <i>Gheorghe Asachi</i> din Iași, Facultatea de Chimie Industrială, Iași, Romania.
Perioada	1986 - 1987 - Curs intensive de <i>Optimizare a proceselor chimice</i>
Activități desfășurate, titlu/calificare obținută	Certificat de participare
Numele și tipul organizației	Institutul Politehnic <i>Gheorghe Asachi</i> din Iași, Facultatea de Chimie Industrială, Iași, Romania.
Perioada	1977 - 1981
Activități desfășurate, titlu/calificare obținută	Cursuri de lungă durată și diploma de Inginer chimist , specialitatea <i>Tehnologie chimică organică</i>
Numele și tipul organizației	Institutul Politehnic <i>Gheorghe Asachi</i> din Iași, Facultatea de Tehnologie Chimică, Iași, Romania

APTITUDINI ȘI COMPETENȚE PERSONALE

 Limba maternă
Alte limbi

Româna

Autoevaluare

European level (*)
Engleza
Franceza
Germana

Înțelegere				Vorbire				Scriere	
Ascultare		Citire		Participare la conversație		Discurs oral		Exprimare scrisă	
C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat
B2	Utilizator independent	B2	Utilizator independent	B2	Utilizator independent	B1	Utilizator independent	B2	Utilizator independent
A2	Utilizator elementar	A2	Utilizator elementar	A2	Utilizator elementar	A1	Utilizator elementar	A2	Utilizator elementar

(*) 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 :**

Studii de licență:

Cursuri și aplicații (seminare, laboratoare, proiecte):

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

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

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

Ingineria proceselor chimice și biologice, specializarea *Tehnologia și biotehnologia 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 biotehnologia 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

Studii postuniversitare:

**Proiectarea și implementarea sistemelor de sănătate și securitate în muncă
Accidente majore și dezastre ecologice**

- **ORGANIZAREA DE EVENIMENTE ȘI MANIFESTĂRI ȘTIINȚIFICE LA NIVEL LOCAL, NAȚIONAL ȘI INTERNAȚIONAL, MEMBRU ÎN COMITETE DE ORGANIZARE ȘI ȘTIINȚIFICE:**

Peste 50 de acțiuni descrise în Lista activităților științifice, atașată)

- **ACTIVITĂȚI ÎN COMUNITATEA ACADEMICĂ**

- organizarea și coordonarea de sesiuni științifice studentești
- coordonarea activității unor cercuri științifice studentești
- membru al conducerii Școlii doctorale a Facultății de Inginerie Chimică și Protecția Mediului a Universității Tehnice *Gheorghe Asachi* din Iași
- 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* din Iași
- 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
- elaborarea de materiale de interes academic (pentru acreditarea, de către ARACIS a unor specializări de licență și master, pentru acreditarea de către CNATDCU, a școlii 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) și președinte al Comisiei de specialitate *Ingineria Mediului* (**Ordin MEC nr. 5644 din 5 septembrie, 2012**)
- membru al Comisiei de specialitate *Științele 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 mecanică și pneumatică; reologia lichidelor biologice; transferul de masă în vase cu amestecare, contactoare pneumatice, utilaje de extracție, filtrare, centrifugare; transferul de căldură în procese de biosinteză și izolare-purificare a produselor de biosinteză;
- migrarea și comportarea poluanților persistenți anorganici și organici (metale grele, poluanți organici persistenți 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, extracție, distilare-rectificare, evaporare și cristalizare, adsorbție pe schimbatori de ioni, separare prin membrane; bioremediere, biosorbție; adsorbție
- 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 agenților microbieni față de factorii fizico-mecanici, cu aplicații în protecția mediului; studii de echilibru, cinetic 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 persistenți de microorganisme inactivate (moarte) și viabile (drojdii, 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-proiectare, Eco-tehnologii, Producție curată

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)

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

Conducător de doctorat din 2009, în domeniul fundamental Științe Inginerești, domeniul de doctorat *Ingineria mediului*, 5 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): 25 (15 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, Editor-in-Chief)

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

Annals of the Academy of Romanian Scientists - Series on Chemistry Sciences (Series Editor)

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

- 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

Referent de specialitate al editurii ECOZONE, Iasi, Romania

- expert:

- Consiliul Național al Cercetării Științifice în Învățământul Superior CNCISIS/UEFISCDI: 2001-2015
- Agenția Națională ANSTI: 2001-2002
- Program CALIST: 2004
- Programul National PN-II
- Membru al Registrului Experților 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 *Științele 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 tezelor de masterat și 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 Iasi, 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/2014=1.065); MedSci; ProQuest (din 2002); CNCISIS (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=21) (<http://omicron.ch.tuiasi.ro/EEMJ/>)
- 2000-2004 - **Editor** al *Buletinului Institutului Politehnic din Iasi, Sectiunea Chimie și Inginerie Chimică*
- 2014 – fondator și **Editor-in-Chief** al *Procedia-Environmental Science, Engineering and Management* (www.procedia-esem.eu)
- 2014 – **Series Editor** al *Analelor Academiei Oamenilor de Știință din Romania – Seria Științe Chimice* (<http://aos.ro/editura/analeleaosr/annals-on-chemistry/>)
- 2011 – membru fondator al *Societății Naționale de Știință și Ingineria Mediului*, Cluj- Napoca, Romania (http://snsim.ro/?page_id=6), vicepreședinte din 2015
- 2012 – membru al *Federatiei Europene a Societăților de Microbiologie*, FEMS
- 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 Iași
- 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
- 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 (J.ASES)*, editată de Department of Environmental Engineering, Sepuluh Nopember Institute of Technology, Surabaya, Indonesia, and Indonesian Society of Sanitary and Environmental Engineers
- 2009 - Membru al *Societății Române de Chimie*
- 2009 – Membru în *Editorial Advisory Board* al *European Journal of Science and Theology*, publicat de Editura EcoZone, Iași, Romania
- 2009 – Membru în *Editorial Advisory Board* al *Journal of Environmental Engineering and Landscape Management*
- 2009 – Membru al Comitetului Editorial al *International Journal of Conservation Science*

- 2008 – membru al *Societății Europene de Membrane*
- 2007 – membru în *Editorial Scientific Board* al **The Open Biotechnology Journal**, publicat de Bentham Science Publishers
- 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
- 1997-2000 - Membru în *Editorial Advisory Board* al **Bioprocess Engineering** journal, publicat de **Springer Verlag**, Berlin, Germania
- 1996 – Membru al Societății Române de Inginerie Chimică
- 1991 – Membru fondator al Societății Române de Bionginerie and Biotehnologie

• **PROFESOR INVITAT ȘI PROGRAME INTERUNIVERSITARE**

- **profesor invitat**

- 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 del 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*, Naples, 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, |
| 2010-2014 | University of Study, <i>Frederico II</i> , Naples, Italy, |
| 2010-2014 | <i>Alma Mater Studiorum</i> University of Study, Bologna, Italy, |
| 2009-2014 | Twente University Netherlands, |
| 2008-2013 | University Minho, Portugal, |
| 2007-2013 | 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 |

- **PREMII ȘI NOMINALIZĂRI**

- **Premii:**

- Premiul “**Nicolae Teclu**” al Academiei Române, Secția Chimie, acordat pentru grupul de lucrări “Studiul fenomenelor de transfer in sisteme polidisperse cu aplicatii 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”, Iași, 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, Iași, Romania;
 - *Diploma de excelență* acordată de European Exhibition of Creativity and Innovation, 2011, Iași, Romania.
 - *Diploma și Marele Premiu* al National Salon and Scientific Books din cadrul *EuroInvent 2012, European Exhibition of Creativity and Innovation*, 11 mai, Iași, 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*, Iași, 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, Iași, 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 in 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
INFORMAȚII SUPLIMENTARE	PORTOFOLIUL ȘTIINȚIFIC: a) Publicații, conferințe, comunicări, rapoarte, brevete: 602 titluri: <ul style="list-style-type: none"> - 18 cărți - 18 capitole în cărți de editor (Wiley, Springer, Elsevier, Signpost) - 9 manuale pentru studenți (tipărite sau în formă electronică) - lucrări: 276 - lucrări publicate în jurnale cotate ISI și ISI Proceedings: 138+10 in ISI Proceedings - lucrări publicate în jurnale românești cu referenți și incluse în baze de date: 91 - lucrări publicate în volume ale conferințelor, cu referenți: 37 - conferințe și keynotes: 49 - prezentări publice la evenimente științifice naționale și internaționale (congrese, simpozioane, conferințe, workshopuri – prezentări orale și postere): 176 - rapoarte de cercetare: 44 - brevete: 12 (9 incluse în <i>Derwent Innovations Index</i>)

b) Peste 2000 citări ale lucrărilor publicate în jurnale ISI (peste 1600 fără autocitări) (Hirsch index h = 22 on Web of Science and h = 23 on Scopus)

http://apps.webofknowledge.com/CitationReport.do?product=WOS&search_mode=CitationReport&SID=Y2hQU5kHi6kPDPhpf3x&page=1&cr_pqid=1&viewType=summary&colName=WOS

http://www.scopus.com/cto2/main.url?origin=resultslst&stateKey=CTOF_634150444

c) organizator/membru în comitete ale unor conferințe, workshopuri: 55

d) Acorduri și programme Erasmus și Erasmus+ – în calitate de coordonator: 15

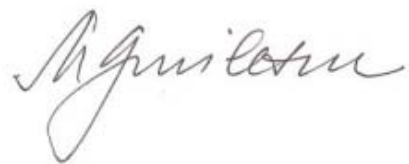
e) Teme/granturi de cercetare:

- produse noi și 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 naționale: 25 (15 director de proiect)
 - 10 granturi CNCSIS (6 director)
 - 6 granturi PNCDI-I (1 AGRAL, 5 CEEX, membru în echipa de cercetare)
 - 3 granturi PNCDI-II (Programul IDEI, ca director)
 - 6 granturi acordate de Ministerul Cercetării și Tehnologiei (director)
- granturi internaționale: 6 (membru al echipei de lucru)

ANEXE Lista publicațiilor științifice

ianuarie 2016

6



PROFESSOR MARIA GAVRILESCU

List of Publications

Books and Chapters

- 2016** *Solid Waste Management for Circular Economy. Challenges and Opportunities in Romania - The Case Study of Iasi County*
Cristina Ghinea, **Maria Gavrilesu**
In: *Towards Zero Waste to Landfill. Circular Economy Boost: Waste to Resources*, Editors: Maria-Laura Franco-Garcia, Jorge Carpio-Aguilar, Hans Bressers
Expected December, 2016
Springer
- Environmental Bioremediation by Biosorption and Bioaccumulation: Current State and New Perspectives*
Raluca-Maria Hlihor, Laura Carmen Apostol, Maria Gavrilesu
In: *Enhancing Remediation of Environmental Pollutants - Biological and Non-Biological Approaches*
Editor: N. Anjum, Springer Science+Business Media (New York), 2016
- Theoretical Predictive Air Quality Models*
Maria Gavrilesu
In: *The Quality of Air*
Editors: Miguel de la Guardia, Sergio Armenta, Elsevier, Amsterdam, will be published in 2016
- 2015** *Bioremediation of Heavy Metals by Microalgae*
Laura Bulgariu, **Maria Gavrilesu**
In: *Handbook of Marine Microalgae: Biotechnology Advances*
Editor S.K. Kim, Elsevier Inc., 2015, pp. 457-469, ISBN: 978-0-12-800776-1
- 2014** *Biomass Potential for Sustainable Environment, Biorefinery Products and Energy*
Maria Gavrilesu
In: *Sustainable Energy in the Built Environment-Steps Towards nZEB*
Editor Ion Visa, Springer International Publishing, 2014, pp. 169-194
- Behaviour of Organic Contaminants in Soil Environment*
Camelia Smaranda, **Maria Gavrilesu**
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
- Contaminated Soils: a Guide to Sampling and Analysis*,
Editori: **Gavrilesu M.**, Bulgariu L.
Future Science, London, 2014, ISBN: 978-1-909453-15-9, 112 pages.
- Colloid-Mediated Transport and Fate of Contaminants in Soils*
Maria Gavrilesu
In: *The Role of Colloidal Systems in Environmental Protection*, Editor Monzer Fanun, Elsevier, in press
ISBN: 9780444632838, 55 pags, 397-451.
<http://store.elsevier.com/The-Role-of-Colloidal-Systems-in-Environmental-Protection/isbn-9780444632838/>
Elsevier, Amstredam, 2014
https://books.google.ro/books?id=wbPVAQAAQBAJ&printsec=frontcover&source=gbs_ge_summary_r&cad=0#v=onepage&q&f=false
- Biorefinery Systems: An Overview*
Maria Gavrilesu
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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 biotehnologie (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 biotehnologie (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 biotehnologie, (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 biotehnologie (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 biotehnologie (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 biotehnologie (Industrial Microbiology and Biotechnology), Edited by "Al. I.Cuza" University of Iasi and Biological Sciences Society of Iasi, 1986, pags. 845-849.

Keynote lectures and Conferences

2015

1. *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 keynote lecture

2014

2. *Ecological and Human Risk Assessment: an Integrated Approach*
Maria Gavrilescu
Invited lecture, ELSSEDIMA International Conference – 18 – 19 September 2014, Cluj-Napoca, Romania
3. *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

2013

4. *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
5. *Sustainable Industrial Production and Waste Minimization*
Maria Gavrilescu
ESEIA Summer School, Sustainable Smart Metropolitan Regions
15 – 28 July 2013, Transilvania University of Brasov, Romania
6. *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
7. *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
8. *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

2012

9. *Alternatives for Sustainable Industrial Production*
Maria Gavrilescu
Progress in Environmental Engineering, Biotechnology and Management in the Frame of Knowledge-Based Sustainable Economy, Exploratory Worskshop, September 19-21, 2012, Iasi, Romania
10. *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 Worskshop, September 19-21, 2012, Iasi, Romania
11. *About Fate and Behaviour of Some Persistent Organic Pollutants in Romanian Soils: A Condition in Bioremediation*
Maria Gavrilescu
Workshop of the Doctoral School, University Federico II, Naples, Italy, Faculty of Engineering, May 30, 2012, Naples, Italy
12. *Chemical and Environmental Engineering for Sustainable Development*
Maria Gavrilescu
Workshop, Technical University Vienna, Institute fur Verfahrenstechnik, Umwelttechnik und Techn. Biowissenschaften, June 26, 2012

2011

13. *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

14. *Biosorption and bioaccumulation in environmental remediation*
Maria Gavrilesco
Workshop of the Doctoral School, University Alma Mater Studiorum, Bologna, Italy, Faculty of Engineering, May 2, 2011, Bologna, Italy
15. *Biosorption and bioaccumulation of persistent pollutants on dead and living biomass*
Maria Gavrilesco
6th International Conference on Environmental Engineering and Management ICEEM 06, September 1 – 4, 2011, Balatonalmádi, Hungary
16. *Education, research, development and innovation for environmental protection and sustainable development*
Maria Gavrilesco
Workshop of the Doctoral School, University Federico II, Naples, Italy, Faculty of Engineering, May, 2011, Naples, Italy
- 2010**
17. *Romania on its way toward sustainability*
Maria Gavrilesco
Workshop Sustainability in Education, Research, Development and Innovation, September 15-16, 2010
University of Twente, Enschede, Olanda, August 15, 2010
18. *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
- 2009**
19. *Education, research, development and innovation for environmental protection and sustainable development*
Maria Gavrilesco
Pannon University, Veszprem, Ungaria, August 25, 2009
20. *Integrated studies on the behaviour of persistent pollutants and risks associated with their persistence in the environment*
Maria Gavrilesco
Pannon University, Veszprem, Ungaria, August 25, 2009
21. *Education, research, development and innovation for environmental protection and sustainable development*
Maria Gavrilesco
National Symposium: Environment – Present and Perspectives for an Ecological Future, Iași, March 2008.
- 2008**
22. *Innovative and sustainable practices in industry. Case study: vegetable oil refining*
Maria Gavrilesco
2nd International Sustainability Conference: Creating Values for Sustainable Development, 21-August 22, 2008, Basel, Switzerland
23. *Integrated studies on the on the behaviour of persistent pollutants and risks associated with their presence in the environment*
Gavrilesco M., Robu B.M, Căliman A.F., Bețianu C., Pavel V.L.
Conferința Internațională Jubiliară e Inventică – INVENTICA 2008, Ediția a XII-a, 12-25 mai 2008, Iași
24. *Environmental Engineering and Management Journal - Beginning, Present and Perspectives*
Maria Gavrilesco, Keynote lecture
The Second National Symposium: "University's Creations" 2008, Iași, Romania, November 7 (2008).
25. *Pollution Prevention and Environmental Protection*
Maria Gavrilesco, Keynote lecture
National Symposium: Environment – Present and Perspectives for an Ecological Future, Iași, March 2008
- 2007**
26. *Process Engineering and Pollution Prevention*
Maria Gavrilesco

Workshop, Technical University Vienna, Institute fur Verfahrenstechnik, Umwelttechnik und Techn. Biowissenschaften, August 24 – 30, 2007

27. *SIWMANET: Sustainable and Integrated Water Resources Management Network*
Maria Gavrilescu, Carmen Teodosiu
Workshop, Danish University of Technology, Copenhagen, Denmark (2007).

28. *An Education and Research Profile in Environmental Engineering and Management*
Maria Gavrilescu, Carmen Teodosiu
Workshop, Danish University of Technology, Copenhagen, Denmark (2007).

2006

29. *Practical aspects on the elaboration of project proposals*
Maria Gavrilescu
Workshop "SIWMANET", October 2006, Iasi, Romania.

30. *Pollution prevention and cleaner production – optimistic perspectives for Romania*
3rd International Conference on Environmental Engineering and Management,
September 23-26, 2006, Iasi, Romania.

31. *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

2005

32. *Bioremediation in environmental engineering*
Maria Gavrilescu
Seminar: Biological Engineering University Minho, Portugal, Department of Biological Engineering, Braga,
September 30, 2005

33. *Biosorption of heavy metals by marine algae*
Maria Gavrilescu
Seminar: Biological Engineering, University Minho, Portugal, Department of Biological Engineering, Braga,
September 30, 2005.

34. *Romanian perspective on partnerships in sustainable water management and use*,
Carmen Teodosiu, **Mariana Gavrilescu**, George Barjoveanu
2nd LK Conference: "Advancing Science and Society Interactions", Sevilla 3-5 februarie 2005,
Workshop: *Linking partners in transnational co-operation on sustainable water management
and land use*

2004

35. *Sources of pollution. Dangerous substances*,
Maria Gavrilescu
European Summer School HUMAN ENVIRONMENT: ENERGY, FORESTS, HEALTH AND SOCIETY,
organized by the University *Henri Poincaré* Nancy, Universitatea *Nancy 1* and „Gh. Asachi” Technical University
of Iasi, September 3-10, 2004.

36. *Major accidents in connection with hazardous industries*
Maria Gavrilescu
European Summer School HUMAN ENVIRONMENT: ENERGY, FORESTS, HEALTH AND SOCIETY,
organized by the University *Henri Poincaré* Nancy, Universitatea *Nancy 1* and „Gh. Asachi” Technical University
of Iasi, September 3-10, 2004.

37. *Community Measures: Seveso Directives*
Maria Gavrilescu
European Summer School HUMAN ENVIRONMENT: ENERGY, FORESTS, HEALTH AND SOCIETY,
organized by the University *Henri Poincaré* Nancy, Universitatea *Nancy 1* and „Gh. Asachi” Technical University
of Iasi, September 3-10, 2004.

38. *Environmental risk assessment for new projects*
Maria Gavrilescu
European Summer School HUMAN ENVIRONMENT: ENERGY, FORESTS, HEALTH AND SOCIETY,
organized by the University *Henri Poincaré* Nancy, Universitatea *Nancy 1* and „Gh. Asachi” Technical University
of Iasi, September 3-10, 2004.

2003

39. *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

40. *Chemical engineering in the postmodern world*
Maria Gavrilescu
Celebration of 2003 students' graduation of the Faculty of Chemical Engineering
2002
41. *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, October 13-15, 2002.
2001
42. *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 October 2000, Călimănești-Căciulata, Vâlcea.
1999
43. *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.
1996
44. *Flow modelling in gas-lift reactors*
Maria Gavrilescu, Radu Z. Tudose
Academic Days, October 10-13, Iasi (1996).
1995
45. *Research on chemical engineering at Research Center for Antibiotics Iasi, Romania*
Rodica Viorica Roman, **Maria Gavrilescu**
Academic Days, 5 - 8 October, Iasi (1995).
1993
46. *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).
1993
47. *Mass transfer modelling in gas-lift reactors*
Maria Gavrilescu, Radu Z. Tudose **Academic Days**,
May 20 - 22, Timisoara, Romania (1993).
1986
48. *Agitation. Flow models in agitated liquids.*
Maria Gavrilescu, Rodica Viorica Roman
Research Center for Antibiotics Conference Days, Iasi, Romania, 1986.
1984
49. *Some aspects on mass transfer in fermentation processes*
Maria Gavrilescu, Rodica Viorica Roman
Research Center for Antibiotics Iasi Conference Days, Romania, 1984.

Oral Communications and Posters

National and International Conferences and Symposia

- 2015
1. *Efficient removal of Pb(II) ions from accidental polluted waters by adsorption onto thermal activated lignin*
Gabriela Nacu, Lăcrămioara Negriță, Mihaela Roșca, Camelia Smaranda, Laura Bulgariu, **Maria Gavrilescu**
The 5th IEEE International Conference on E-Health and Bioengineering - EHB 2015
Grigore T. Popa University of Medicine and Pharmacy, Iași, Romania, November 19-21, 2015
Poster
2. *Evaluation of Pentachlorophenol Leaching Potential in Natural Soils*
Camelia Smaranda, Laura Bulgariu, Mihaela Rosca, Remus Turculet, Cristina Ghinea, **Maria Gavrilescu**
The 5th IEEE International Conference on E-Health and Bioengineering - EHB 2015
Grigore T. Popa University of Medicine and Pharmacy, Iași, Romania, November 19-21, 2015
Poster

3. *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**
The 5th IEEE International Conference on E-Health and Bioengineering - EHB 2015
Grigore T. Popa University of Medicine and Pharmacy, Iași, Romania, November 19-21, 2015
Poster

4. *Environmental Impacts of Polyvinyl Chloride (PVC) Production Process*
Elena-Diana Comăniță, Cristina Ghinea, Mihaela Roșca, Isabela Maria Simion, Madalina Petraru, **Maria Gavrilescu**
The 5th IEEE International Conference on E-Health and Bioengineering - EHB 2015
Grigore T. Popa University of Medicine and Pharmacy, Iași, Romania, November 19-21, 2015
Poster

5. *(Bio)remediation of heavy metals contaminated effluents in mechanical and pneumatic mixed systems*
M. Rosca, R.M. Hlihor, E.D. Comanita, P. Cozma, I.M. Simion, M. Diaconu, **M. Gavrilescu**
"Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference, 29 – 31 October 2015,
Iasi, ROMANIA
Poster

6. *Comparative photodegradation study of Erythrosin B using two reactors type*
L.C. Apostol, **M. Gavrilescu**
"Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference, 29 – 31 October 2015,
Iasi, ROMANIA
Poster

7. *Analysis of the degradation and potential human health risks of twelve pesticides applied in double dose in tomatoes*
Raluca Maria Hlihor, Manuela Olga Pogacean, Mihaela Rosca, **Maria Gavrilescu**
"Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference, 29 – 31 October 2015,
Iasi, ROMANIA
Poster

8. *Evaluation of municipal solid waste scenarios with AHP and ELECTRE Techniques*
Cristina Ghinea, Diana Elena Comanita, Madalina Petraru, Hans Th. A Bressers, **Maria Gavrilescu**
"Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference, 29 – 31 October 2015,
Iasi, ROMANIA
Poster

9. *Environmental impacts evaluation of polyhydroxyalkanoates (PHAs) with recipe method*
Elena-Diana Comăniță, Cristina Ghinea, **Maria Gavrilescu**
"Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference, 29 – 31 October 2015,
Iasi, ROMANIA
Poster

10. *Dynamic behaviour of organic pollutants in the soil matrix - the influence of main parameters*
Camelia Smaranda, Mihaela Roșca, Petronela Cozma, **Maria Gavrilescu**
"Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference, 29 – 31 October 2015,
Iasi, ROMANIA
Poster

11. *Agricultural waste used as an effective low-cost biosorbent for removing organic pollutants from aqueous solutions*
C. Smaranda, L.C. Apostol, E.D. Comanita, **M. Gavrilescu**
International Scientific Congress - Soil And Food, Resources For A Healthy Life,
22 - 24 October 2015, Iasi, Romania
Poster

12. *Impacts on climate change generated by polyvinyl chloride (PVC) and polyhydroxyalkanoates (PHAs) production: A comparative approach*
Elena-Diana Comăniță, Cristina Ghinea, Mihaela Rosca, Lidia Favier, Irina Gostin, Ștefania Iordache, **Maria Gavrilescu**
International Scientific Congress - Soil And Food, Resources For A Healthy Life,
22 - 24 October 2015, Iasi, Romania
Poster

13. *O abordare integrată a evaluării riscurilor ecologice și pentru sănătatea umană generate de unele pesticide (An integrated approach of environmental risk assessment and human health arising from certain pesticides)*
 Raluca-Maria Hlihor, Manuela Olga Pogăcean, Mihaela Roșca, **Maria Gavrilescu**
Sesiunea Științifică de Toamnă a Academiei Oamenilor de Știință din România (AOȘR), 24-26 septembrie 2015, Iași, Romania
Oral presentation
14. *Sensitive determination of halogenated nitrogenous disinfection by-products in drinking water samples*
 Y. Kadmi, L. Favier, **M. Gavrilescu**, C. Vial, D. Wolbert
9th International Conference on "Instrumental Methods of Analysis-Modern Trends and Applications", 20-24 September 2015, Kalamata, Greece
Poster
15. *Assessment of transport and mobility of organic pollutants in soil*
 C. Smaranda, M.C. Popescu, D. Bulgariu, T. Măluțan, **M. Gavrilescu**
The 8th International Conference Environmental Engineering and Management, 9-12 September 2015, Iasi, Romania
Poster
16. *Heavy metals tolerance of some microorganisms and plants: Consequences and potential applications to environmental bioremediation*
 Mariana Diaconu, Lucian Vasile Pavel, Raluca Maria Hlihor, Dana Luminița Sobariu, Daniela Ionela Tudorache Fertu, Markus Lenz, **Maria Gavrilescu**
The 8th International Conference Environmental Engineering and Management, 9-12 September 2015, Iasi, Romania
Poster
17. *Comparative evaluation of petroleum-based polyvinyl chloride (pvc) vs. biologically-based polyhydroxyalkanoates (PHAs) by life cycle assessment (LCA)*
 E.D. Comaniță, C. Ghinea, C. Smaranda, L. Favier, I. Gostin, S. Iordache, **M. Gavrilescu**
The 8th International Conference Environmental Engineering and Management, 9-12 September 2015, Iasi, Romania
Poster
18. *Removal of Pb(II) ions from aqueous media by biosorption onto soy biomass*
 Daniela Ionela Ferțu, Bogdan Istrate, Mihaela Roșca, Laura Bulgariu, Raluca-Maria Hlihor, **Maria Gavrilescu**
The 8th International Conference Environmental Engineering and Management, 9-12 September 2015, Iasi, Romania
Poster
19. *Valorisation of soy waste biomass as biosorbent for heavy metals removal from the environment*
 Daniela Ionela Ferțu, Bogdan Istrate, Laura Bulgariu, Dumitru Bulgariu, **Maria Gavrilescu**
The 8th International Conference Environmental Engineering and Management, 9-12 September 2015, Iasi, Romania
Poster
20. *Forecasting municipal solid waste generation using prognostic tools and regression analysis*
 C. Ghinea, E.N. Dragoi, E.-D. Comaniță, S. Curteanu, **M. Gavrilescu**
The 8th International Conference Environmental Engineering and Management, 9-12 September 2015, Iasi, Romania
Poster
21. *Rhizobacteria and plants symbiosis in Cd(II) uptake and its implications for soil bioremediation*
 Dana Luminița Sobariu, Mariana Diaconu, Lucian Vasile Pavel, Raluca-Maria Hlihor, Markus Lenz, **Maria Gavrilescu**
The 8th International Conference Environmental Engineering and Management, 9-12 September 2015, Iasi, Romania
Poster
22. *Estimation of volatile organic compounds from road traffic and their risk to human health in an urban area*
 M. Roșca, R.M. Hlihor, E.D. Comaniță, I.M. Simion, C. Ghinea, **M. Gavrilescu**
The 8th International Conference Environmental Engineering and Management, 9-12 September 2015, Iasi, Romania
Poster

23. *Characterization of a split-channel rectangular airlift reactor for application in efficient decontamination of gaseous effluents*
Cozma P., Roșca M., Smaranda C., Hlihor R.M., Mămăligă I., **Gavrilescu M.**
The 8th International Conference Environmental Engineering and Management,
9-12 September 2015, Iasi, Romania
Poster
24. *Cr(VI) removal from aqueous solution by dead and living *Arthrobacter viscosus* biomass: Laboratory investigation and scale up potential*
Raluca Maria Hlihor, Hugo Figueiredo, Teresa Tavares, **Maria Gavrilescu**
The 8th International Conference Environmental Engineering and Management,
9-12 September 2015, Iasi, Romania
Poster
25. *Simultaneous HPLC-ICP-MS speciation analysis of antimony (Sb) and arsenic (As): Application in environmental monitoring*
Dana Luminita Sobariu, **Maria Gavrilescu**, Markus Lenz
The 8th International Conference Environmental Engineering and Management,
9-12 September 2015, Iasi, Romania
Poster
26. *Ultra-performance liquid chromatography-tandem mass spectrometry for rapid and highly sensitive determination of haloacetamides: application to the analysis of water samples*
Yassine Kadmi, Lidia Favier, **Maria Gavrilescu**, Dominique Wolbert
EUROANALYSIS XVIII, 18th edition of EuroAnalysis, The European Conference on Analytical Chemistry, 6 - 10 September 2015, Bordeaux, France
Poster
27. *Environmental impact of polyhydroxyalkanoates (PHAs) using Life Cycle Assessment (LCA)*
Elena-Diana Comaniță, Cristina Ghinea, Irina Gostin, Stefania Iordache, **Maria Gavrilescu**
19th Romanian International Conference on Chemistry and Chemical Engineering, September 2-5, 2015, Sibiu, Romania
Poster
28. *Evaluation of environmental impacts generated by some municipal solid waste management systems with ReCiPe method*
Cristina Ghinea, Elena Diana Comanita, Mihaela Roșca, Gabriela Constantinescu, **Maria Gavrilescu**
19th Romanian International Conference on Chemistry and Chemical Engineering, September 2-5, 2015, Sibiu, Romania
Poster
29. *Assessing biomass potential for environmental clean-up and sustainable energy*
Diana Elena Comanita, Raluca Maria Hlihor, Daniela Ionela Fertu, Gabriela Nacu, Camelia Smaranda, Adrian Catalin Puitel, Dan Alexandru Gavrilescu, Laura Bulgariu, **Maria Gavrilescu**
6th European Bioremediation Conference, June 29 – July 2, 2015, Chania, Crete, Greece
Poster
30. *Recovered paper value for resource conservation and chemicals production*
Cristina Ghinea, Madalina Petraru, Adrian Catalin Puitel, Dan Alexandru Gavrilescu, Hans Bressers, **Maria Gavrilescu**
6th European Bioremediation Conference, June 29 – July 2, 2015, Chania, Crete, Greece
Poster

2014

31. *Sorption behavior of anionic dye Congo red in the soil environment,*
C. Smaranda, B. Dragoi, D. Bulgariu, **M. Gavrilescu,**
2nd International Conference on Chemical Engineering, Innovative Materials and Processes,
România, Iași, 5-8 November 2014.
Poster
32. *Ecotoxicological evaluation of Erythrosine B and its degradation products,*
L.C. Apostol, C. Smaranda, M. Diaconu, **M. Gavrilescu,**
2nd International Conference on Chemical Engineering, Innovative Materials and Processes,
România, Iași, 5-8 November 2014.
Poster
33. *Challenges and opportunities in green plastics: An assessment using the ELECTRE decision-aid method,*

- E.D. Comaniță, R.M. Hlihor, C. Ghinea, I.M. Simion, C. Smaranda, L. Favier, **M. Gavrilesu**,
2nd International Conference on Chemical Engineering, Innovative Materials and Processes,
 România, Iași, 5-8 November 2014.
Poster
34. *A comparative life cycle assessment of three types of agricultural waste applied for Cd(II) biosorption*,
 R.M. Hlihor, I.M. Simion, C. Ghinea, E.D. Comanita, L.C. Apostol, P. Cozma, **M. Gavrilesu**,
2nd International Conference on Chemical Engineering, Innovative Materials and Processes, România,
 Iași, 5-8 November 2014.
Poster
35. *Sustainability indicators associated to the ecological footprint in construction and demolition waste management*
 I.M. Simion, S. Zanni, R.M. Hlihor, P. Cozma, D.L. Sobariu, S. Bamonti, A. Bonoli, **M. Gavrilesu**, Oana Banu,
2nd International Conference on Chemical Engineering, Innovative Materials and Processes,
 România, Iași, 5-8 November 2014.
Poster
36. *Evaluation of solid waste management scenarios using analytic hierarchy process (AHP) technique*
 Cristina Ghinea, Elena Diana Comaniță, Madalina Petraru, Petronela Cozma, **Maria Gavrilesu**,
2nd International Conference on Chemical Engineering Innovative Materials and Processes România,
 Iași, 5-8 November 2014
Poster
37. *Comparison of ALR, BC and Packed Column Performances used for CO₂ Removal from Gas Mixtures*
 Petronela Cozma, Walter Wukovits, Isabela Maria Simion, Raluca-Maria Hlihor, Anton Friedl, Ioan Mămăligă,
Maria Gavrilesu,
2nd International Conference on Chemical Engineering, Innovative Materials and Processes,
 România, Iași, 5-8 November 2014.
Poster
38. *Construction & Demolition Wastes: A Comparative Case Study Toward Eco-Designed Concrete*,
 Sara Zanni, Isabela Maria Simion, Silvia Bamonti, Alessandra Bonoli, **Maria Gavrilesu**, Maria Chiara Bignozzi,
ECOMONDO, 18th International Trade Fair of material and Energy Recovery and Sustainable Development, 5-8 November 2014, Rimini, Italia.
Poster
39. *Eco-efficient construction and demolition waste management*,
 Isabela Maria Simion, Sara Zanni, Silvia Bamonti, Alessandra Bonoli, **Maria Gavrilesu**, Maria Chiara Bignozzi,
ECOMONDO, 18th International Trade Fair of material and Energy Recovery and Sustainable Development, 5-8 November 2014, Rimini, Italia.
Poster
40. *Evaluation of untreated biomass of Phaseolus vulgaris L. as potential biosorbent for organic dyes*,
 C. Smaranda, L.C. Apostol, E.D. Comanita, **M. Gavrilesu**,
"Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference, Iasi, 31 October - 1
 November, 2014.
Poster
41. *Multicriteria analysis applied to bioplastics and bioenergy production from waste*,
 E.D. Comaniță, C. Ghinea, C. Smaranda, R.M. Hlihor, I.M. Simion, **M. Gavrilesu**,
"Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference, Iasi, 31 October - 1
 November, 2014.
Poster
42. *Analysis of environmental impacts of municipal solid waste*,
 Cristina Ghinea, Diana Elena Comanita, Madalina Petraru, **Maria Gavrilesu**,
"Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference, Iasi, 31 October - 1
 November, 2014.
Poster
43. *Assessment of Phaseolus vulgaris L. biomass as low-cost adsorbent for the removal of Congo red dye from aqueous solutions*,
 C. Smaranda, E.D. Comaniță, L.C. Apostol, **M. Gavrilesu**,
International Scientific Congress -"Life Sciences, a Challenge for the Future", Iași, România, 23 -
 25 October 2014.

Poster

44. *The evaluation of factors affecting sorption of pentachlorophenol in soil*
C. Smaranda, D. Bulgariu, T. Măluțan, **M. Gavrilescu**,
International Scientific Congress - "Life Sciences, a Challenge for the Future", Iași, România, 23
- 25 October 2014.
Poster
45. *Risk assessment of municipal solid waste landfilling*
Cristina Ghinea, Diana Elena Comanita, Isabela Maria Simion, Petronela Cozma, **Maria Gavrilescu**
Second International Conference on NATURAL AND ANTHROPIC RISKS - ICNAR2014, 4-7 June
2014, Bacau, Romania
Oral presentation
46. *Occurrence of plastic waste in the environment: ecological and health risks*
Elena - Diana Comanita, Raluca Maria Hlihor, Cristina Ghinea, **Maria Gavrilescu**
Second International Conference on NATURAL AND ANTHROPIC RISKS - ICNAR2014, 4-7 June
2014, Bacau, Romania
Oral presentation
47. *Assessment of human health risk of pesticides applied in double dose on apples*
Raluca Maria Hlihor, Manuela Olga Pogăcean, **Maria Gavrilescu**
Second International Conference on NATURAL AND ANTHROPIC RISKS ICNAR2014
04-07 June 2014, Bacau, Romania.
Poster
48. *Environmental risks of Erythrosin B*
Laura Carmen Apostol, Raluca Maria Hlihor, **Maria Gavrilescu**
Second International Conference on NATURAL AND ANTHROPIC RISKS ICNAR2014
04-07 June 2014, Bacau, Romania.
Poster

2013

49. *Evaluation of Environmental Impacts for Cd(II) Biosorption on Pumpkin Seed Hulls using Life Cycle Assessment*
Raluca Maria Hlihor, Cristina Ghinea, Dana Sobariu, Isabela Teslaru, Laura Carmen Apostol, Petronela Cozma, Laura Bulgariu, **Maria Gavrilescu**
The 7th International Conference Environmental Engineering and Management, Integration Challenges for Sustainability, 18 – 21 September 2013, Vienna, Austria
Oral presentation
50. *Life Cycle Assessment of Waste Management and Recycled Paper Systems*
Cristina Ghinea, Madalina Petraru, Isabela Simion, Dana Sobariu, Hans Th. A Bressers, **Maria Gavrilescu**
The "7th International Conference Environmental Engineering and Management, Integration Challenges for Sustainability", 18 – 21 September 2013, Vienna, Austria
Poster
51. *Modelling and optimization of CO₂ absorption in pneumatic contactors using artificial neural networks developed with clonal selection based algorithm*
Petronela Cozma, Ioan Mămăligă, Elena Niculina Drăgoi, Silvia Curteanu, Walter Wukovits, Anton Friedl, **Maria Gavrilescu**
The "7th International Conference Environmental Engineering and Management, Integration Challenges for Sustainability", 18 – 21 September 2013, Vienna, Austria
Oral presentation
52. *Experimental analysis and mathematical prediction of Cd(II) removal by biosorption using artificial neural network and genetic algorithm*
Raluca Maria Hlihor, Mariana Diaconu, Florin Leon, Silvia Curteanu, **Maria Gavrilescu**
The "7th International Conference Environmental Engineering and Management, Integration Challenges for Sustainability", 18 – 21 September 2013, Vienna, Austria
Poster
53. *Assessment of environmental impacts of municipal solid waste management strategies*
Ana-Maria Șchiopu, Ion Apostol, **Maria Gavrilescu**
The "7th International Conference Environmental Engineering and Management, Integration Challenges for Sustainability", 18 – 21 September 2013, Vienna, Austria
Poster

2012

54. *Production and composition of construction and demolition waste in Romania*
Isabela Maria Simion, Maria Emiliana Fortună, Alessandra Bonoli, **Maria Gavrilescu**
100th Anniversary of Faculty of Chemical Engineering and Environmental Protection,
International Conference - Centenary of Education in Chemical Engineering, November 28-30, 2012,
Iasi, Romania
Poster
55. *Sustainable urban environment: ecological footprint analysis of building construction*
Maria Emiliana Fortună, Isabela Maria Simion, Alessandra Bonoli, **Maria Gavrilescu**
100th Anniversary of Faculty of Chemical Engineering and Environmental Protection,
International Conference - Centenary of Education in Chemical Engineering, November 28-30, 2012,
Iasi, Romania
Poster
56. *Investigation of Parameters Influencing the Hazardous Food Dye Photocatalytic Degradation Using Slurry Reactor*
Laura Carmen Apostol, Anca Florentina Caliman, **Maria Gavrilescu**
100th Anniversary of Faculty of Chemical Engineering and Environmental Protection,
International Conference - Centenary of Education in Chemical Engineering, November 28-30, 2012,
Iasi, Romania
Poster
57. *Bioremoval of Pb(II) from aqueous solutions by living Arthrobacter viscosus*
Raluca Maria Hlihor, Hugo Figueiredo, Mariana Diaconu, Teresa Tavares, **Maria Gavrilescu**
100th Anniversary of Faculty of Chemical Engineering and Environmental Protection,
International Conference - Centenary of Education in Chemical Engineering, November 28-30, 2012,
Iasi, Romania
Poster
58. *Aerobic Biodegradation of Phenol by Activated Sludge in a Batch Reactor*
Petronela Cozma, Raluca-Maria Hlihor, Mariana Diaconu, **Maria Gavrilescu**
100th Anniversary of Faculty of Chemical Engineering and Environmental Protection,
International Conference - Centenary of Education in Chemical Engineering, November 28-30, 2012,
Iasi, Romania
Poster
59. *Environmental assessment of recyclable materials using life cycle assessment and multicriteria evaluation*
Cristina Ghinea, Madalina Petraru, Hans Th. A. Bressers, **Maria Gavrilescu**
100th Anniversary of Faculty of Chemical Engineering and Environmental Protection,
International Conference - Centenary of Education in Chemical Engineering, November 28-30, 2012,
Iasi, Romania
Poster
60. *Integrated multi-criteria decision-making methodology for assessing the sustainability of paper production scenario*
Mădălina Petraru, Cristina Ghinea, Hans Th. A. Bressers, **Maria Gavrilescu**
100th Anniversary of Faculty of Chemical Engineering and Environmental Protection,
International Conference - Centenary of Education in Chemical Engineering, November 28-30, 2012,
Iasi, Romania
Poster
61. *Bioavailability and bioaccessibility of heavy metals in soil and risks on human health"*
Dana Luminița Sobariu, **Maria Gavrilescu**
100th Anniversary of Faculty of Chemical Engineering and Environmental Protection,
International Conference - Centenary of Education in Chemical Engineering, November 28-30, 2012,
Iasi, Romania
Poster
62. *Application of the ecological footprint for assessing the impacts of construction and demolition waste on key resources and biodiversity*
Maria Emiliana Fortună, Isabela Maria Simion, Alessandra Bonoli, **Maria Gavrilescu**
Conference "Biodiversity and Society: Societal dimensions of the conservation and utilisation of biological diversity", 14th – 16th November 2012, Göttingen, Germany.
Poster
63. *Environmental and economic evaluation of management systems for municipal solid waste*
Cristina Ghinea, Madalina Petraru, Hans Th. A. Bressers, **Maria Gavrilescu**

Global Conference on Global Warming-2012 (GCGW-12), July 8-12, 2012 Istanbul, Turkey
Poster

64. *Evaluation of the contribution of the raw materials used in paper production to global warming* Madalina Petraru, Cristina Ghinea, Hans Th. A. Bressers, **Maria Gavrilesu**
Global Conference on Global Warming-2012 (GCGW-12), July 8-12, 2012 Istanbul, Turkey
Poster
65. *Studies of toxicity of Chromium(VI) and Cadmium(II) on some microbial species*
Lucian Vasile Pavel, **Mariana Diaconu, Maria Gavrilesu**
5th International Symposium on Biosorption and Bioremediation,
June 24 - 28, 2012, Prague, Czech Republic.
Poster
66. *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 Gavrilesu**
The 20th European Biomass Conference and Exhibition, June 17-22, 2012, Milan, Italy.
Oral communication
67. *Environmental assessment of municipal solid waste management systems using LCA and multicriteria evaluation*
Ghinea C., Petraru M., Bressers Th.A.H., **Maria Gavrilesu**
The 20th European Biomass Conference & Exhibition 2012, June 18-22, 2012, Milan, Italy
Poster
68. *Studies on the fate and behaviour of some contaminants in soils as a prerequisite in bioremediation*
Maria Gavrilesu
Environmental Microbiology & Biotechnology in the frame of the knowledge Based Bio & Green Economy, EMB2012, April 10-12, 2012, Bologna, Italy.
Poster
69. *Chromium(VI) removal from aqueous solutions by Trichoderma viride fungal biomass*
Raluca Maria Hlihor, Mariana Diaconu, Teresa Tavares, **Maria Gavrilesu**
Environmental Microbiology & Biotechnology in the frame of the knowledge Based Bio & Green Economy, EMB2012, April 10-12, 2012, Bologna, Italy.
Poster
70. *Decolorization of Aqueous Effluents Using Agro Waste*
Laura Carmen Apostol, Luciana Pereira, Madalena Alves, **Maria Gavrilesu**
Environmental Microbiology and Biotechnology in the Frame of the Knowledge – Based Bio and Green Economy, April 10-12, 2012, Bologna, Italy.
Poster
71. *Application of ecological footprint as a measure of sustainability in construction building*
Maria Emiliană Fortună, Isabela Maria Simion, Alessandra Bonoli, **Maria Gavrilesu**
Days of "Alexandru Ioan Cuza" University, Faculty of Chemistry, October 25-27, 2012, Iasi, Romania
Poster
72. *Photocatalytic degradation of a hazardous food dye*
Laura Carmen Apostol, Anca Florentina Caliman, **Maria Gavrilesu**
100th Anniversary of Faculty of Chemical Engineering and Environmental Protection,
International Conference - Centenary of Education in Chemical Engineering, 28-30 November 2012,
Iasi, Romania
Poster

2011

73. *Assesment of sustainability based on LCA. Case of woody biomass*
Maria Emiliană Fortună, **Isabela Maria Simion, Maria Gavrilesu**
International Congress „Woodchem 2011”, Strasbourg, France, December 1-2, 2011
74. *Life cycle assessment of construction and demolition waste*
Isabela Maria Simion, Maria Emiliană Fortună, **Maria Gavrilesu**
INCD ECOIND, International Symposium „Environment and Industry”, Bucharest, November 16 – 18, 2011
75. *Assessing pollution prevention and waste management scenarios using specific sustainability indicators*
Maria Emiliană Fortună, Isabela Maria Simion, **Maria Gavrilesu**
INCD ECOIND, International Symposium „Environment and Industry”, Bucharest, November 16 –

76. *Ecological footprint of construction and demolition waste*
Isabela Maria Simion, Maria Emiliana Fortună, **Maria Gavrilesco**
9th International Congress of Young Chemists "YoungChem 2011" 12-16 October, Cracow, Poland
77. *Life cycle analysis a tool for assessing the environmental impact of solid waste*
Maria Emiliana Fortună, Isabela Maria Simion, **Maria Gavrilesco**
VI edition of the International Symposium, Present Environment and Sustainable Development,
Iasi, October 14 - 16, 2011.
78. *Studies concerning the mechanism of sorption of Congo red on soil*
Smaranda Camelia, Mămăligă I., Bulgariu D., **Gavrilesco M.**
International Conference on Environmental Engineering and Management, ICEEM/06,
Balatonalmadi, Hungary, September 1-4, 2011
79. *Analysis and Management of Specific Processes from Environmental Engineering and Protection Based on Sustainability Indicator*
Fortună M., Teslaru Simion I., Ghinea C., Petraru M., Fasolă Apostol L.C., Hlihor R.M., **Gavrilesco M.**
The 6th International Conference on Environmental Engineering and Management – ICEEM 06
Green Future, Balaton Lake, Hungary, September 1-4, 2011
80. *Bio(sorbent) based remediation in environmental pollution control*
Laura Carmen Apostol, Raluca Maria Hlihor, **Maria Gavrilesco**
The 5th European Bioremediation Conference", July 4-7, 2011, Chania, Crete, Greece.
81. *Ecological footprint of pharmaceutical and cosmetic industries*
Maria Emiliana Fortună, Isabela Maria Simion, **Maria Gavrilesco**
The 10-th Romanian International Symposium on Cosmetic and Flavour Products "COSMETIC
SCIENCE – LOOKING TO THE FUTURE", Iași, România, 31 May-3 June, 2011.
82. *Sustainability indicators in personal care products sector*
Isabela Maria Simion, Maria Emiliana Fortună, **Maria Gavrilesco**
The 10-th Romanian International Symposium on Cosmetic and Flavour Products "COSMETIC
SCIENCE – LOOKING TO THE FUTURE", Iași, România, 31 May-3 June, 2011.
83. *Sustainable development indicators and environmental impact*
Maria Emiliana Fortună, Isabela Maria Simion, **Maria Gavrilesco**
European Exhibition of Creativity and Innovation, Iași, România, May12-14, 2011.
84. *Indicators for sustainability in industrial systems. Case study: paper manufacturing*
Maria Emiliana Fortună, Isabela Maria Simion, **Maria Gavrilesco**
International Conference of Applied Sciences. Chemistry and Chemical Engineering, fifth
edition, University "Vasile Alecsandri" from Bacău, April 28 –30, 2011, Bacau, Romania.
85. *Sustainable development indicators a tool for pollution prevent*
Maria Emiliana Fortună, Isabela Maria Simion, **Maria Gavrilesco**
Days of "Alexandru Ioan Cuza" University, Faculty of Chemistry, October 28 – 29, 2011, Iasi,
Romania
86. *Biogas Upgrading Using Water Scrubbing Technology*
Petronela Cozma, Walter Wukovits, Anton Friedl, **Maria Gavrilesco**
Days of Faculty of Industrial Chemistry and Environmental Protection, Eighth Edition, November
17-18, 2011, Iassy, Romania
87. *Analysis of Environmental Impact for Industry Products. Case Study: Paper Manufacturing*
Petraru M., Ghinea C., Bressers H., **Gavrilesco Maria**
Days of Faculty of Industrial Chemistry and Environmental Protection, Eighth Edition, November
17-18, 2011, Iassy, Romania
88. *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., **Gavrilesco 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
89. *Use of sustainable indicators in solid waste management*
Isabela Maria Simion, Maria Emiliana Fortună, Maria Gavrilesco

2010

90. *Study of cadmium sorption on soils*
Vasile Lucian Pavel, Raluca Maria Hlihor, Dumitru Bulgariu, **Maria Gavrilesu**, Florian Statescu
International Symposium Control and Metrology of Environmental Quality Factors (IS.CMEQF-01), 23- November 27, 2010, Iasi, Romania.
91. *Thermodynamic study of Cd(II) sorption on soil*
Raluca-Maria Hlihor, Petronela Cozma, Cristina Ghinea, Vasile Lucian Pavel, Brindusa Mihaela Robu, **Maria Gavrilesu**
„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.
92. *Biosorption of cadmium (II) ions from simulated wastewaters by dried yeast biomass*
Raluca Maria Hlihor, Mariana Diaconu, Hugo Figueiredo, Teresa Tavares, **Maria Gavrilesu**
The 3rd International Conference on Advanced Materials and Systems, INCDTP-INCP, September 16-18, 2010, Bucharest, Romania.
93. *Agro Waste Used as Natural Sorbents for Acid Red 51 Uptakes*
Laura Carmen Apostol, Luciana Pereira, Madalena Alves, **Maria Gavrilesu**
The 3rd International Conference on Advanced Materials and Systems, INCDTP-INCP, September 16-18, 2010, Bucharest, Romania.
94. *Equilibrium, thermodynamic and kinetic studies for the biosorption of aqueous cadmium(II) ions by Saccharomyces cerevisiae*
Raluca Maria Hlihor, Mariana Diaconu, **Maria Gavrilesu**
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.
95. *Bean husk used for Erythrosine B removal*
Laura Carmen Apostol, **Maria Gavrilesu**
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.
96. *Airlift bioreactors for pulp and paper effluents treatment and management*
Petronela Cozma, **Maria Gavrilesu**
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.
97. *The environmental behavior of pentachlorophenol in Iasi area soil*
Smaranda Camelia, Puițel Adrian, Măluțan Theodor, **Gavrilesu 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.
98. *Prognostic tools for assessment of alternative waste management scenarios*
Cristina Ghinea, **Maria Gavrilesu**
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.
99. *Estimating the environmental benefits of pollution prevention practices*
Madalina Petraru, **Maria Gavrilesu**
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.
100. *Process in assessment of ecological and health risk induced by persistent organic pollutants*
Gavrilesu M., Robu B., Căliman A.F., Smaranda Camelia, Pavel V.L.
European Exhibition of Creativity și Innovation, EUROINVENT Iași, May 7-9, 2010
101. *Removal of CO₂ from gas streams in airlift reactors*
Petronela Cozma, **Maria Gavrilesu**
Days of the Faculty of Chemical Engineering and Environmental Protection, November 17-19, 2010, Iași, România

102. *Influence of pH on Cr(VI) reduction and removal by Saccharomyces cerevisiae*
 Raluca-Maria Hlihor, Mariana Diaconu, **Maria Gavrilescu**
Days of the Faculty of Chemical Engineering and Environmental Protection, November 17-19,
 2010, Iași, România
103. *Municipal Solid Waste Management -Environmental Assessment from Life Cycle Perspective*
 Cristina Ghinea, **Maria Gavrilescu**
Days of the Faculty of Chemical Engineering and Environmental Protection, November 17-19,
 2010, Iași, România
104. *Transition towards a sustainable economy based on industrial ecology principles: Romanian case study*
 Madalina Petraru, **Maria Gavrilescu**
Days of the Faculty of Chemical Engineering and Environmental Protection, November 17-19,
 2010, Iași, România
105. *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

2009

106. *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, October 28 – 31, 2009,
 Bucharest International Technical Fair, Exhibitions Complex ROMEXPO
107. *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.
108. *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.
109. *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.
110. *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 Inovative Research and Technologies” June
 4-6, 2009
111. *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, October 28 – 31,
 2009, Bucharest International Technical Fair, Exhibitions Complex ROMEXPO
112. *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
113. *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
114. *Overview on the economic assessment of pollution prevention/cleaner production practices*
Madalina Petraru, Maria Gavrilescu
Days of the Faculty of Chemical Engineering and Environmental Protection, November 18-20,
 2009, Iași, România

2008

115. *Comparative experimental study of Cd(II) sorption on natural and synthetic sorbents (in Romanian)*
 Raluca Maria Hlihor, Lucian Vasile Pavel, Anca Florentina Caliman, Igor Cretescu, **Maria Gavrilesco**
Days of the Faculty of Chemical Engineering and Environmental Protection, November 19-21,
 2008, Iași, România
116. *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 Gavrilesco**
Days of the Faculty of Chemical Engineering and Environmental Protection, November 19-21,
 2008, Iași, România
117. *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 Gavrilesco
Days of the Faculty of Chemical Engineering and Environmental Protection, November 19-21,
 2008, Iași, România
118. *Study of Pentachlorophenol Sorption on a Natural Clay as Sorbent*
 Laura Carmen Apostol, Camelia Smaranda, Florentina Anca Căliman, Igor Crețescu,
Maria Gavrilesco
Days of the Faculty of Chemical Engineering and Environmental Protection, November 19-21,
 2008, Iași, România
119. *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 Gavrilesco
Days of the Faculty of Chemical Engineering and Environmental Protection, November 19-21,
 2008, Iași, România
120. *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 Gavrilesco**
Days of the Faculty of Chemical Engineering and Environmental Protection, November 19-21,
 2008, Iași, România

2007

121. *Comparative study of Cr(VI) removal from aqueous solutions using new sorbents and Purolite A400 resin*
 Lucian V. Pavel, Panagiotis Misaelides, Dimitrios Zabolulis, Igor Cretescu, **Maria Gavrilesco**
International Conference BENA, Belgrad, November 2007.
122. *Simulation of transport and behaviour of some persistent organic pollutants in soils*
 Camelia Bețianu, Roxana Mai, Florina Ungureanu, **Maria Gavrilesco**
International Conference Romanian Agriculture in EU: Opportunities and Perspectives, October 18-19, 2007,
 Iași, Romania.
123. *Partition and sorption of heavy metals to soils*
 Camelia Bețianu, Loredana Brînză, Vasile Lucian Pavel, **Maria Gavrilesco**
International Conference Romanian Agriculture in EU: Opportunities and Perspectives, October 18-19, 2007,
 Iași, Romania.
124. *Cr(VI) Removal from aqueous solutions by an epichlorohydrin / polyethylene-imine resin*
 Lucian V. Pavel, Panagiotis Misaelides, Dimitrios Zabolulis, Igor Cretescu, **Maria Gavrilesco**
4th International Conference on Environmental Engineering and Management, September 12-15,
 2007, Iasi, Romania
125. *Application of advanced oxidative processes for degradation of commercial dyes in aqueous solutions*
 Florentina Anca Căliman, Camelia Bețianu, Ioannis Poullos, **Maria Gavrilesco**
Days of "Alexandru Ioan Cuza" University, Faculty of Chemistry, October 26-27 (2007).
126. *Degradation of Orange II from aqueous solutions through photocatalytic processes*
 Camelia Bețianu, Florentina Anca Căliman, **Maria Gavrilesco**, Ioannis Poullos
Days of "Alexandru Ioan Cuza" University, Faculty of Chemistry, October 26-27 (2007).
127. *Studies on Cr (VI) removal from water using a synthetic anionic resin*
 Lucian Vasile Pavel, Panagiotis Misaelides, Dimitrios Zabolulis, Igor Crețescu,
Maria Gavrilesco
Days of Faculty of Industrial Chemistry and Environmental Protection, 15-16 November (2007), Iasi, Romania
128. *Pollution prevention in chemical industry through process integration*

Oana Marlena Penciu, **Maria Gavrilesu**
Days of Faculty of Industrial Chemistry, 18 -19 January (2007).

129. *Biotechnology in environmental protection – bioremediation/treatment of environmental components contaminated with heavy metals*
Loredana Brînză, **Maria Gavrilesu**
Days of Faculty of Industrial Chemistry and Environmental Protection, 15-16 November (2007), Iasi, Romania
130. *Natural adsorbents – possibilities for application for the remediation of some environmental components affected by pollution phenomenon*
Daniela-Ionela Tudorache, **Maria Gavrilesu**
Days of Faculty of Industrial Chemistry and Environmental Protection, 15-16 November (2007), Iasi, Romania
131. *Options for process integration for pollution prevention*
Oana Marlena Penciu, **Maria Gavrilesu**
Days of Faculty of Industrial Chemistry and Environmental Protection, 15-16 November (2007), Iasi, Romania
132. *Comparative study of homogeneous photocatalytic degradation of Alcian Blue 8 GX and Orange II dyes*
Camelia Bețianu, Anca Căliman, Ioannis Poullos, **Maria Gavrilesu**
Days of Faculty of Industrial Chemistry and Environmental Protection, 15-16 November (2007), Iasi, Romania
133. *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 Poullos, **Maria Gavrilesu**
Days of Faculty of Industrial Chemistry and Environmental Protection, 15-16 November (2007), Iasi, Romania
134. *Selective collection of electric and electronic waste in Iasi city*
Ana-Maria Șchiopu, **Maria Gavrilesu**
Days of Faculty of Industrial Chemistry and Environmental Protection, 15-16 November (2007), Iasi, Romania

2006

135. *Remediation of soils polluted with radioactive compounds*
Lucian Pavel, **Maria Gavrilesu**, Igor Cretescu
3rd ***International Conference on Environmental Engineering and Management***, September 23-26, 2006, Iasi, Romania
136. *Strategies for chemical process integration and changes for pollution prevention and wastewater recycling*
Maria Gavrilesu, Carmen Teodosiu, Dan Gavrilesu, Luminita Lupu
International Symposium on Environmental Biotechnology, Leipzig 2006, July 9-14, 2006

2005

137. *Studies on heavy metals biosorption on marine algae*
Otilia Brînză, Loredana Brînză, **Maria Gavrilesu**
Days of Faculty of Industrial Chemistry, 23-25 November 2005, Iasi, Romania
138. *Ecological footprint- tool for sustainability in Romania*
Diana Maria Ilie, Nicolae Peiu, **Maria Gavrilesu**
Days of Faculty of Industrial Chemistry, 23-25 November 2005, Iasi, Romania
139. *Proactive environmental strategies through cleaner production*
Maria Gavrilesu
9th ***International Conference on Environmental Science and Technology***, Rhodes Island, Grecia, september 1-3, 2005
140. *Ability of different algal species to take up heavy metals from wastewater.*
Loredana Brinza, Matthew J. Dring, **Maria Gavrilesu**.
Annual Meeting of British Phycological Society, University of Birmingham, United Kingdom, January 5-7, 2005.

2002

141. *Studies on heavy metals removal by biosorption*
L. Brînză, **Maria Gavrilesu**
The Third Conference of the Faculty of Industrial Chemistry, Iasi, Romania, 13-15 November (2002).

142. *Studies on the depollution of gaseous fluxes containing VOCs*
O. Penciu, **Maria Gavrilesu**
The Third Conference of the Faculty of Industrial Chemistry, Iasi, Romania, 13-15 November 2002
- 1998
143. *Pneumatic Bioreactors in Industrial Bioprocesses and Environmental Protection*
Maria Gavrilesu, Matei Macoveanu
The 9th Symposium on Microbiology and Biotechnology, Iași, Romania, 16-18 September 1998.
144. *Bioreactors with Immobilized Microorganisms for Wastewater Biological Treatment*
Maria Gavrilesu, Matei Macoveanu
The 9th Symposium on Microbiology and Biotechnology, Iași, Romania, 16-18 September 1998.
145. *Heat Transfer in Bioprocesses*
Maria Gavrilesu, Rodica Viorica Roman
The 9th Symposium on Microbiology and Biotechnology, Iași, Romania, 16-18 September 1998.
- 1996
146. *Separation by microfiltration and ultrafiltration and concentration by reverse osmosis applied in biochemical processes*
Maria Gavrilesu, Rodica Viorica Roman, Radu Z. Tudose
International Symposium Drug Research Between Information and Life Science, October 3-4, 1996, Bucharest, Romania
147. *Relationship between Momentum, Heat and Mass Transfer in Industrial Bioreactors and Penicilin Biosynthesis*
Rodica Viorica Roman, **Maria Gavrilesu**, Radu Z. Tudose
International Symposium Drug Research Between Information and Life Science, October 3-4, 1996, Bucharest, Romania.
148. *Momentum, Heat and Mass Transfer in Microbial Cultures in Airlift Bioreactors*
Maria Gavrilesu, Radu Z. Tudose, Rodica Viorica Roman
The 4th International Symposium: Biotechnology Today and Tomorrow, September 26-27, 1996, Bucharest, Romania.
149. *Mass Transfer Characteristics of Rushton Modified Turbines*
Rodica Viorica Roman, Radu Z. Tudose, **Maria Gavrilesu**
The 4th International Symposium: Biotechnology Today and Tomorrow, September 26-27, 1996, Bucharest, Romania.
- 1995
150. *Biosynthesis of Some Antibiotics in Industrial Bioreactors with Modified Impellers*
Rodica Viorica Roman, Radu Z. Tudose, **Maria Gavrilesu**, Minodor Cojocaru
Symposium 40 Years of Industrial Biosynthesis of Drugs in Romania, 8-9 December (1995). , Iași, Romania.
151. *Antibiotic biosynthesis investigation in airlift bioreactors.*
Maria Gavrilesu, Rodica Viorica Roman **International Symposium Modelling for Improved Bioreactor Performance III**, September 21-22, 1995, Brașov, Romania.
152. *Performance of Pilot and Industrial Scale Bioreactors with Modified Rushton Turbine Agitators*
Rodica Viorica Roman, **Maria Gavrilesu**
International Symposium Modelling for Improved Bioreactor Performance III, September 21-22, 1995, Brașov, Romania.
- 1994
153. *Residence Time Distribution in an Airlift Reactor*
Radu Z. Tudose, **Maria Gavrilesu**
The Conference of the Faculty of Industrial Chemistry: Progresses in Chemistry and Chemical Technology, Iasi, Romania, 13-15 November (1994).
- 1989
154. *Oxygen Mass Transfer in Stirred Tank Bioreactors. I. Oxygen Mass Transfer in Non-Newtonian Liquids*
Rodica Viorica Roman, **Maria Gavrilesu**, Alexandru Sauciu, Virginia Asandului
7th Symposium on Industrial Microbiology and Biotechnology, Galați, Romania, 8-9 September, 1989.

155. *Oxygen Mass Transfer in Stirred Tank Bioreactors. II. Oxygen Mass Transfer in Newtonian Liquids*
Maria Gavrilescu, Rodica Viorica Roman, Alexandru Sauciu, Alexandru Pintilie, Alexandru Pascal, Liviu Cârligeanu
7th Symposium on Industrial Microbiology and Biotechnology, Galați, Romania, 8-9 September, 1989.
156. *Studies on the Rheological Behaviour of Some Antibiotic Biosynthesis Liquids*
Maria Gavrilescu, Rodica Viorica Roman, Alexandru Sauciu, Virginia Asandului
8th Session of Communications "Actualities in Antibiotic Research, Production and Use",
 Research Center for Antibiotics, Iași, Romania, 25-26 May, 1989.
157. *Effect of bioreactor and stirrer geometry on mixing power consumption*
 Rodica Viorica Roman, **Maria Gavrilescu**, Alexandru Sauciu, 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.
158. *Some Aspects Regarding the Rheology of Antibiotic Biosynthesis Liquids.*
Maria Gavrilescu, Rodica Viorica Roman, Alexandru Sauciu, Virginia Asandului
International Symposium INTERBIOTECH'89, 28-30 June 1989, Bratislava, Tschechoslovakya
159. *Mass Transfer and gas-liquid dispersion in an external recycling (airlift) bioreactor.*
 Rodica Viorica Roman, **Maria Gavrilescu**, Alexandru Sauciu, Virginia Asandului
International Symposium INTERBIOTECH'89, 28-30 June, 1989, Bratislava, Tschechoslovakya.
- 1988
160. *Evaluation of the power input for liquid mixing*
Maria Gavrilescu, Rodica Viorica Roman, Vasile Efimov, Alexandru Sauciu, Sabin Ionescu
The 6th Symposium on Industrial Microbiology and Biotechnology, Galati, Romania, September, 1988.
161. *Turbine Impellers for Antibiotic Industry*
Maria Gavrilescu, Rodica Viorica Roman, Alexandru Sauciu, Alexandru Pintilie, Alexandru Pascal
Symposium: Days of Iasi Antibiotics Plant, Iasi, Romania, December 1988.
162. *Mass Transfer in Airlift Bioreactors*
 Rodica Viorica Roman, **Maria Gavrilescu**
Technical-Scientific Communications Session for Young Specialists, Brașov, Romania, November, 1988)
163. *Unconventional Bioreactors for Antibiotic Biosynthesis*
 Rodica Viorica Roman, **Maria Gavrilescu**, Alexandru Sauciu, Alexandru Pintilie, Alexandru Pascal, Gheorghe Neacșu
Third National Congress on Chemistry, Bucharest, Romania, 21-24 September, 1988.
164. *Optimization of the Operation Conditions for a Bioreactor*
Maria Gavrilescu, Rodica Viorica Roman, Alexandru Sauciu, Alexandru Pintilie, Alexandru Pascal, Matei Macoveanu
Third National Congress on Chemistry, Bucharest, Romania, 21-24 September, 1988.
- 1987
165. *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)
166. *Gas-Liquid Mass Transfer and Dispersion Characteristics in a Column Bioreactor with External Recirculation*
 Rodica Viorica Roman, **Maria Gavrilescu**, Alexandru Sauciu, Virginia Asandului, Alexandru Pintilie, Alexandru Pascal
The 7th Symposium of Scientific Communications, Research Center for Antibiotics, Iași, May, 1987).
167. *Oxygen Mass Transfer in a Deep Jet Bioreactor*
Maria Gavrilescu, Rodica Viorica Roman, Alexandru Pintilie, Alexandru Pascal, Ion Vornicu, Gheorghe Jalencu, Alexandru Sauciu
The 7th Symposium of Scientific Communications, Research Center for Antibiotics, Iași, May, 1987).
- 1986
168. *Mixing. Flowing Models for Agitated Liquids*
 Rodica Viorica Roman, **Maria Gavrilescu**
Conferences and Communications, Research Center for Antibiotics Iasi, Romania, May, 1986.

169. *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

170. *Oxygen Transfer in a Bioreactor with Static Mixers*
Rodica Viorica Roman, **Maria Gavrilescu**, Alexandru Sauciu
The 4th Symposium on Biotechnology, 26-31 May, 1986, Varna, Bulgaria

1985

171. *Reuse of heat resulted during veterinary antibiotic biosynthesis*
Alexandru Sauciu, Rodica Viorica Roman, **Maria Gavrilescu**
CAER Meeting, Iasi, Romania, April, 1985.

172. *Recuperation of the Biological Heat with Heat Pumps*
Alexandru Sauciu, Rodica Viorica Roman, **Maria Gavrilescu**
The 6th Symposium of Scientific Communications, Research Center for Antibiotics, Iasi, Romania,
May 1985.

173. *Bacitracin Biosynthesis in an External Loop Fermentor Column Type*
Maria Gavrilescu, Rodica Viorica Roman, Alexandru Sauciu, Eugen Iluc, Gheorghe Neacșu, Alexandrina
Dorobăț, Magda Comănescu, Liliana Bulgaru, Ana Mustea
The 6th Symposium of Scientific Communications, Research Center for Antibiotics, Iasi, Romania,
May 1985.

174. *Static Mixers Effect on Mass Transfer in an External Loop Fermentor Column Type*
Maria Ionescu, Rodica Viorica Roman, **Maria Gavrilescu**, Alexandru Sauciu, Teodor Rez, Constantin
Poncu, Alexandru Pintilie
The 6th Symposium of Scientific Communications, Research Center for Antibiotics, Iasi, Romania,
May 1985.

1984

175. *Mass Transfer in a Column Bioreactor with Static Mixers*
Alexandru Sauciu, 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.

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

Patents

2002 *Gas-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 Gavrilesco, Stelian Petrescu, A, Pop, A.Vulkan,
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 Gavrilesco
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 Gavrilesco, 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 Gavrilesco, 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 Gavrilesco, 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 Gavrilesco, 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 Gavrilesco, Leocadia Jipa, Alexandru Pintilie, Ileana Ciobanu,
Brevet RO No. 92880/1987.
Derwent Innovations Index: 1988-103387

Research programs with industrial companies

Project responsible

- 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 Erithromycin-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. Iasi 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 "Biosimulatori" 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 the research group

- 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 Sinerdol, 1987-1990, beneficiary: Antibiotics Plant, Iasi, Romania*
- 1984-1986** *Improved technology for Sinerdol production, 1984-1986, beneficiary: Antibiotics Plant, Iasi, Romania*

Research Grants

National grants

Director of grants

- 2012** *Progress in Environmental Engineering, Biotechnology and Management in the Frame of Knowledge-Based Sustainable Economy, Exploratory Worskshop*
PN-II-ID-WE-2012-4-062, contract 60/16.08.2012
 Duration: 3 days, 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*
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 CNCISIS 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 CNC SIS 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 CNC SIS 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 CNC SIS 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 CNC SIS 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 CNC SIS 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

- 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 Iasi, 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 CNCISIS A, Contract 63 GR/19.05.2006, cod CNCISIS 288, theme 17
 Director: prof. Matei Macoveanu, Membru în echipa de cercetare
 35000 RON
- 2005** *Environmental bioremediation applying processes from chemical engineering and biotechnology*
Grant CNCISIS A, Contract 34664/24.06.2005, Cod 774, theme 35
 Director: Prof. dr.eng. Matei Macoveanu
 175 mil. lei
- 2004** *Environmental bioremediation applying processes from chemical engineering and biotechnology*
Grant CNCISIS A, 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
- 2003** *Environmental bioremediation applying processes from chemical engineering and biotechnology*
Grant CNCISIS A, Contract 40222/2003, Cod 316, theme 13
 82 500 mii lei
 Director: Prof. dr. eng. Matei Macoveanu

International Grants

Member of research groups

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

Products and tehnologies 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 Sinerdol*
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

2015

1. ***The 7th International Conference on Energy and Environment***, CIEM 2015, 22-23 October, Iasi, Romania
2. 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
3. ***8th International Conference on Environmental Engineering and Management***, Iasi, 9-12 September, 2015
4. 11th International Conference ***Constructive and Technological Design Optimization in the Machines Building Field*** OPROTEH 2015, 4-6 June 2015, Bacau, Romania
5. **6th European Bioremediation Conference**, 29 June -2 July 2015, Chania, Crete, Greece
6. 10th National Symposium with International Participation “***Environment and Progress***” 29-30 October 2015, University Babes Bolyai of Cluj Napoca, Romania.

2014

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

2013

13. 7th International Conference on Environmental Engineering and Management “***Integration Challenges for Sustainability***” Vienna, 18-21 September, 2013

14. Conference CIEM 2013, „**Green and Smart Energy**”, Bucharest, University Polytechnica, 7-8 November, 2013
 15. 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>
 16. *ESEIA Summer School, Sustainable Smart Metropolitan Regions*, 15 – 28 July 2013, Transilvania University of Brasov, Romania
 17. **8th Conference on Sustainable Development of Energy, Water and Environment Systems, SDEWES 2013**, September 22-27, Dubrovnik, Croatia.
- 2012**
18. *Progress in Environmental Engineering, Biotechnology and Management in the Frame of Knowledge-Based Sustainable Economy, Exploratory Worskshop*, September, 19-21, 2012, Iasi, Romania
 19. **100th Anniversary of Faculty of Chemical Engineering and Environmental Protection**, International Conference - Centenary of Education in Chemical Engineering, November 28-30, 2012, Iasi, Romania
 20. **First International Conference on MOLDAVIAN RISKS - FROM GLOBAL TO LOCAL SCALE** 16-19 May, 2012, University Vasile Alecsandri, Bacau, ROMANIA
 21. **ELSEDIM**A International Conference, 9th Edition, University Babes-Bolyai, Cluj Napoca, 25-27th October, 2012, <http://elsedima.conference.ubbcluj.ro/>
 22. **7th Conference on Sustainable Development of Energy, Water and Environment Systems, SDEWES 2012**, July 1-7, Ohrid, Rep. of Macedonia, <http://www.ohrid2012.sdewes.org/>
 23. **Environmental Microbiology and Biotechnology in the Frame of the Knowledge-Based Bio and Green Economy, Conference, EMB-2012**, 10-12 April, 2012, Bologna, Italy
- 2011**
24. **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*
 25. **The 3rd IASTED International Conference on Environmental Management and Engineering**, EME 2011, July 4 – 6, 2011, Calgary, AB, Canada
 26. **6th Dubrovnik Conference on Sustainable Development of Energy, Water and Environment System**, September 25-29, 2011, Dubrovnik, Croatia
- 2010**
27. **The Second IASTED International Conference on Environmental Management and Engineering**, EME 2010, July 15 – 17, 2010, Banff, Alberta, Canada
 28. **International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences**, IC-ANMBES June 18-20, 2010, Brasov
- 2009**
29. **Fifth International Conference on Environmental Engineering and Management**, 15-19 Septembren 2009, Tulcea, Romania
 30. **International Conference on Engineering, Environment, Economics, Safety and Health 2009 (CONVEESH'09)**, October 26-27, 2009, *Organizaed 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
 31. **5th Dubrovnik Conference on Sustainable Development of Energy, Water and Environment System**, September 30-October 3, 2009, Dubrovnik, Croatia
 32. **BRAMAT**, International Conference on Materials Science & Engineering, 26 – 28 February 2009, University Transilvania Brasov, Romania
- 2008**

33. ***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**
34. ***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
35. ***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**
36. ***Third International Conference on Environmental Engineering and Management***, 21-24 September 2006, *International Scientific Committee*, co-chairman, Managing Editor for *Proceedings of the Conference*
37. ***Workshop "SIWMANET"***, Octombrie, Iasi, Romania
38. ***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.
39. ***Environmental communication, reporting and transparency in Romania***, Workshop organized by the Department of Environmental Engineering and Management, Technical University Iasi and IIIIEE, Lund, Sweden, Iasi, May 2006
- 2005**
40. ***2nd Living Knowledge Conference: "Advancing Science and Society Interactions"***, Seville 3-5 February 2005, Spain
41. ***Management and environmental policy for sustainable production and consumption***, Workshop organized by the Department of Environmental Engineering and Management, Technical University Iasi and IIIIEE, Lund, Sweden, Iasi, 28-29 October, 2005
42. ***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.
43. ***Eco-certification in tourism***, Workshop, organized by the Department of Environmental Engineering and Management and IIIIEE Lund, Sweden, Research Center for Tourism, Campulung Moldovenesc, April 2005
44. ***Funding Opportunities at National Level***, Department of Projects Management, Technical University Iasi, March, 2005
- 2004**
45. ***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.
46. ***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
47. ***Eco-Design and Product Innovations***, Department of Environmental Engineering and Management and IIIIEE Lund, Sweden, 2004, Iasi, Romania
48. ***Waste management***, Department of Environmental Engineering and Management and IIIIEE Lund, Sweden, 2004, Iasi, Romania
49. ***Sustainable Tourism - Certification – Ecolabelling***, Department of Environmental Engineering and Management and IIIIEE Lund, Sweden, 2004, Iasi, Romania
- 2002**
50. ***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*

- 2000**
51. *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*
- 1989**
52. *Earth Day*, Studentship Scientific Communications, May 1999-May 2002.
- 1986**
53. *The 8th Session for Scientific Communications: Actualities in Drug Research, Production and Use*, Research Center for Antibiotics, Iasi, Romania, 25-26 May, 1989
- 1984**
54. *Sessions for Scientific Research Reports Communications*, Research Center for Antibiotics, Iasi, Romania, May, 1985-1986.
55. *Sessions for Scientific Research Reports Communications*, Research Center for Antibiotics, Iasi, Romania, May, 1984.

Erasmus and Erasmus+ Agreements

Period	Partner
2011-2014	University Maribor, Slovenia Erasmus Agreement, staff and students mobility, program coordinator
2011-2014	University of Study, dell'Insubria, Varese, Italy, Erasmus Agreement, staff and students mobility, program coordinator
2010-2014	University of Study, Federico II, Naples, Italy, Erasmus Agreement, staff and students mobility, program coordinator
2010-2014	Alma Mater Studiorum University of Study, Bologna, Italy, Erasmus Agreement, staff and students mobility, program coordinator
2009-2014	Twente University Netherlands, Erasmus Agreement, staff and students mobility, program coordinator
2008-2013	University Minho, Portugal, Erasmus Agreement, staff and students mobilities, program coordinator
2007-2013	University Minho, Portugal, Erasmus Agreement, staff mobilities, program coordinator
2014-2021	University of Natural Resources and Life Sciences, Austria Erasmus+, staff and students mobilities, program coordinator
2014-2021	Technical University of Crete, Grecia Erasmus+, staff and students mobilities, program coordinator
2014-2021	Universita degli Study di Napoli Federico II, Italia Erasmus+, staff and students mobilities, program coordinator
2014-2017	University of Twente, Olanda Erasmus+, staff and students mobilities, program coordinator
2014-2021	Universidade do Minho, Portugalia Erasmus+, staff and students mobilities, program coordinator
2014-2021	University of Maribor, Slovenia Erasmus+, staff and students mobilities, program coordinator
2014-2021	Hacettepe University Ankara, Turcia Erasmus+, staff and students mobilities, program coordinator

Scientific publications elaborated and coordinated as Editor

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2012	<i>Vol.11</i>	<i>12 issues per year</i>
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2010	<i>Vol.9</i>	<i>12 issues per year</i>
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2000 **Tome XLVI (L)**, Fasc. 1-2
Tome XLVI (L), Fasc. 3-4

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Tome XLVII (LI), Fasc. 3-4

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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. IAȘI, 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- **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 Gavrilesco, Katerina Demnerova, Jens Aamand, Spyros Agathos

On line at: 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
- 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
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- 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
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- 2015 ***BIOSACC, Biosorption and bioaccumulation in the bioremediation of environmental compartments contaminated with persistent pollutants" Newsletter 5/2014***, On line:

January 2016

Professor Maria Gavrilesco

