

CURRICULUM VITAE



Name: **MANGALAGIU IONEL**

Citizenship: Romanian

Birth Date: July, 06, 1964, CIORTESTI village, district of IASI, Romania.

Marital status: Unmarried, 1 child: Ioan, 1996.

Position and degree hold: Professor, Ph-D

Address(mailing): Professor Ionel MANGALAGIU, "Al. I. Cuza" University of Iasi, Organic Chemistry Dep., B-dul Carol, No.11, 700 506 IASI,

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- **Education:**

- 1970-1978, Primary and the secondary school in my village
- 1978-1982, Medical High School, Iasi,
- 1983-1984, Military service
- 1985-1990, Chemical Technological Faculty, CHEMISTRY- PHYSICS Department, at the Politechnical Institute, Iasi, Romania

- **Achievements:**

- **1982**, Medical instructor diploma;
- **1990**, **Bachelor** in Chemistry and Physics;
 - **1990**: **Assisting professor**, Organic Chemistry Department, Alexandru Ioan Cuza University of Iasi, Romania;
 - **1995**: **Lecturer**, the same department;
 - **1996**: **Doctor's Degree** in Chemistry. The title of my theses was "New Ylide Compounds In the 1,2-Diazine Series", lead by Prof.dr.doc. **MAGDA PETROVANU**;
 - **1997**: **Associate professor**, the same department;
 - **2001**: **Professor**, the same department;
 - **2002**: **Ph-D Supervisor**.
- **2006-2012**: **Member of the Romanian High Commission for Attestation of University Titles and Diplomas**;
- **since 2012**: **President of the Appeal Romanian High Commission for Attestation of University Titles and Diplomas**;
- **2005-2008**: **Executive Director of Doctoral School, Faculty of Chemistry**;
- **2000-2004**: **Vice dean** of faculty;
- **2005-2008**: **Head of Organic and Biochemistry Department**;
- **since 2012**: **Dean** of faculty;
- **since 2002**: **Erasmus - Socrates coordinator** for international cooperation with Technical University of Braunschweig (Technische Universität Braunschweig), Konstanz (University of Konstanz, Institut für Chemie, Germany), Anger (Universite D'Angers, France) și Cagliari (Università degli Studi di Cagliari, Italy);

- **Invited speaker to foreign universities:**

- ✓ 'Microwave Assisted Reactions in Organic Synthesis', Technische Universität Braunschweig, Germany, August 27, **2005**;
- ✓ 'Coronands', Technische Universität Braunschweig, Germany, July 18, **2007**.

- ✓ ‘Coronands and Azaheterocycles: New Approches’, Technische Universität Braunschweig, Germany, June 27, **2008**.
- ✓ ‘Nanomaterials with Azaheterocycles Skeleton’, Université D’Angers, France, July 10, **2008**.

- **Honours, Awards, Fellowships, Membership of Professional Societies (selections)**

- ✓ **July- August, 2008. Visiting Professor:** Technische Universität Braunschweig, University of Konstanz, Institut für Chemie, Germany ; field: ‘Supramolecular Chemistry’ respectively “Highly Fluorescent Materials through Nonconventional methods”; **Prof. Wolf DuMont** and **Prof. Ulrich Groth** respectively;
- ✓ **July- August, 2007. Visiting Professor:** Technische Universität Braunschweig, University of Konstanz, Institut für Chemie, Germany ; field: ‘Supramolecular Chemistry’ respectively “Highly Fluorescent Materials through Microwave Chemistry”; **Prof. Mathias Tham** and **Prof. Ulrich Groth** respectively;
- ✓ **July- August, 2006. Visiting Professor,** University of Konstanz, Germany; field: ‘Solid-Phase Peptide Synthesis’; Prof. Michael Przybylski team;
- ✓ **July- August, 2005. Visiting Professor,** University of Konstanz, Germany; field: ‘Solid-Phase Peptide Synthesis’; Prof. Michael Przybylski team;
- ✓ **June – September, 2003. DAAD – NATO Fellowship. Visiting Professor:** Ludwig Maximilianus University Munchen, Institut für Organische Chemie; field: ‘Preparation of Polyfunctional Aryl, Alkenyl and Heteroaryl Magnesium Reagents and their Applications in Organic Synthesis’; Prof. Paul Knochel team ;
- ✓ **August - September, 1998. NATO Fellowship. Postdoctoral study: NATO Advanced Study Institute in Management of Research&Development&Inovation in Chemistry,** Budapest, Hungary;
- ✓ **September 1994 - August 1995. Scholarship in Norway, University of Oslo,** (competition: The Council of Europe for the East European countries (China including). Specialization in the field of “Application of Organometallic Chemistry to Synthetic Problems”, under the supervising of **prof. dr. Kjell Undheim**.
 - **December 19, 2011. “Costin D. Nenitescu Medal”, for outstanding achievements in chemistry. Roumanian Society of Chemistry;**
 - **May 10-12, 2012. “Grand Prize Euroinvent”, for outstanding achievements in research. Euroinvent 2012,** Iasi, Romania;
 - **May 12-14, 2011. “Excellency Diploma”, Technical University of Moldova for “Research in the field of Azaheterocycles”. Euroinvent 2011,** Iasi, Romania;
 - **May 07-th, 2010. “Special Award”, Croatian Association of Inventors, Euroinvent 2010,** Iasi, Romania;
 - **October 26-th, 2006. “Al.I.Cuza University Award in Research”, Al.I.Cuza University Days,** Iasi, Romania;
- **November 8-10, 2012. “Gold Medal”.** Patent awarded: Procedure for obtaining of oil nanodispersion with regenerative capacity. **37-th International Invention Show,** Sibenik, Croatia;
- **September 27-29, 2012. “Gold Medal”.** Patent awarded: Procedure for obtaining of oil nanodispersion with regenerative capacity. **VII International Salon of Invention and Technologies “New Time”,** Sevastopol, Ukraine;
- **June 8-10, 2011. “Gold Medal”.** Group of patents awarded. **Inventica 2011,** Iasi, Romania;
- **May 12-14, 2011. “Gold Medal”.** Patent awarded: Procedure for obtaining of oil nanodispersion with regenerative capacity. **Euroinvent 2011,** Iasi, Romania;
- **May 07-09, 2010. “Gold Medal”.** Patent awarded: “Using steroidal glycoside purpureagitozid – 3-o-β-D-glucopyranosyl...., in quality of compound with antitumoral activity”. **Euroinvent 2010,** Iasi, Romania;
- **June 04-06, 2009. “Excellency Diploma and Gold Medal”.** Patent awarded: “Steroidal Glycosides: Biological Active Compounds of Vegetal Origin”. **Inventica 2009,** Iasi, Romania;

- **May 07-09, 2009.** “**Gold Medal**”. Patent awarded: “Steroidal compound with antitumoral activity”.
Euroinvent 2009, Iasi, Romania;

- **June- July, 2008.** Erasmus/Socrates mission to : Universite D’Angers (France, July 13-25) and University of Konstanz, Institut fur Chemie (Germany, June 30 – July 12);

- **July- August, 2007.** Erasmus/Socrates mission to: TU Braunschweig (Germany, July 13-19) and University of Konstanz, Institut fur Chemie (Germany, July 20 – August 5);

Member of the Romanian Chemical Society- since 1999;
Member of the Romanian Innovation Society- since 2005;
Member of the Romanian Society of Biomaterials- since 2006;
Member of the American Chemical Society- since 2008;

• **Other Achievements:**

- reviewer (referee) for:
 - FP7 program, since 2008;
 - INTAS program of grants (EU), since 2002;
 - CNCSIS, CEEEX, PNCDI program of grants of Romanian Ministry of Research, since 2001;
 - member in Editorial Board of the following journals
 - Current Microwave Chemistry, Ed. Bentham Science, UK;
 - Revista de Chimie Bucuresti, Ed. Syscom, Bucuresti, Romania;
 - Analele Stiintifice ale Universitatii “Al.I Cuza” Iasi- Acta Chimica Iasi, Ed. Univ. Iasi, Iasi, Romania;
 - International Journal of Conservation Science, Ed. Univ. Iasi, Iasi, Romania;
 - International Journal of Criminal Investigation, Ed. IT Code (on line: www.icji.eu), Romania;

▪ referee to the following journals:

- European Journal of Medicinal Chemistry, Ed. Elsevier, UK;
- Ultrasonics Sonochem, Ed. Elsevier, UK;
- Comptes Rendus Chimie, Ed. Elsevier, UK;

- Journal of Heterocyclic Chemistry, Ed. Wiley, New York, USA;
- Heteroatom, Ed. Wiley, New York, USA;

- Central European Journal of Chemistry, Ed. Springer, Germany;
- Monatshefte für Chemie, Ed. Springer, Germany;

- Current Organic Chemistry, Ed. Bentham Science, UK;
- Current Microwave Chemistry, Ed. Bentham Science, UK;
- Letters in Drug Design and Discovery, Bentham Science, UK;

- Arkivok, Arkat Gainesville, FL, USA;
- Molecules, Taylor&Francis, USA;
- Journal of Chemistry, Hindawi Publishing Corporation, Egypt/USA
- Revue Roumaine de Chimie, Ed. Academiei, Bucuresti, Romania;
- Roum. Biotech. Lett., Ed. Universitatii Bucuresti, Romania;
- Revista de Chimie, Ed. Syscom, Bucuresti, Romania;
- Analele Stiintifice ale Universitatii “Al.I Cuza” Iasi, Ed. Univ. Iasi, Iasi, Romania.

• **Language skills:**

English- very good

French- good

Didactic and Scientific Background

• **Didactic Carer:**

- Beginning with the academic year 1995- 1996 I'm teaching the following courses:

1. **Relation between Structure and Biological Activity of the Organic Compounds** (at the 3rd year Biochemistry Section and Master students).
2. **Natural Products** (at the 4th year of Chemistry Section and year Biochemistry Section).
3. **Organic Chemistry I** (at the 2nd year of Chemistry Section).
4. **Amphiphilic Compounds** (Master)
5. **Microwave and Ultrasounds Assisted Reactions** (Doctoral School).
6. **Drug Design** (Master).

- **Research:**

Main field of research:

Chemistry of Heterocyclic Compounds,

with three areas of expertise:

1. **Chemistry and Health: Nitrogen Heterocycles Chemistry and Medicinal Chemistry;**
2. **Chemistry and Nanoscience: Nitrogen and/or Oxygen Macrocycles, Supramolecular Chemistry;**
3. **Chemistry and Sustainable Development: Eco-friendly Reactions using Microwave and Ultrasounds Assisted Reactions.**

Inside of these areas the following main aspects are followed:

a. Chemistry and Health: the development of new useful reactions for the synthesis of heterocyclic compounds, and in particular, reactions involving reactive species such as cycloimmonium ylides. The main outcomes of these directions are: new nanobiomaterials with and without nitrogen heterocycle moieties, new nitrogen heterocycles biologically active [potentials drugs (anticancer, anti-HIV, antituberculosis, antimicrobials) and growth factors for agriculture], modified oligo- and poly-peptides (including anti- Alzheimer), etc.;

b. Chemistry and Nanoscience: in this field our efforts are orientated in the area of oxa- and oxaza- coronands, nano-electronics and nano-devices, nanobiomaterials (for dentistry including), new highly fluorescent materials, chemical captors (chemosensors);

c. Chemistry and Sustainable Development: microwave and ultrasounds assisted reactions; these technologies allow us to develop environmental friendly methods, with lower waste and environmental friendly impact ["green" chemistry];

Keywords: heterocycles, diazine, ylides, oxa- oxaza- coronands, microwave, ultrasounds, cycloadditions, fluorescent materials, nanobiomaterials, antituberculosis, antimicrobials, anticancer, anti-HIV, nano-electronics and nano-devices (logic gates, chemosensors), "green" chemistry.

- **Significant Results:**

Research team: 4 postdocs, 5 PhD students, 8 master and graduating students;

- 10 PhD students finished their thesis under my supervision:

Moldoveanu C. (July 2007), Zbancioc Ghe. (July 2007), Butnariu R. (June 2008), Balan A.M. (May 2009), Florea. O. (October 2009), Risca M. (December 2009), Bejan V. (February 2010), Mantu D (November 2010), Astefanei D (December 2013), Maftai D (September 2014).

Former postdocs:

Antoci Vasilichia, Romania (2012-2013)

Edu Carolina, Moldova (2013)

Nejjar El Ansari Zineb, Maroco (2014)

Present postdocs:

Chibac Andreea, Romania (2014-2015)

Mantu Dorina, Romania (2014-2015)

Murariu Manuela, Romania (2014-2015)

Zbancioc Ana Maria, Romania (2014-2015)

- **total scientifically papers: over 150, from which:**

- papers in ISI quoted publications: over 75 (Bioorg. Med. Chem., Eur. J. Med. Chem., Eur. J. Org. Chem., Heterocycles, J. Heterocyclic Chem., Lett. Drug Des. Discov., Macromolecules, Synthesis, Synlett, Tetrahedron, Tet. Lett., Ultrason. Sonochem., etc.);
- papers presented to meetings: over 150 (over 100 international);

- **Citations, from which:**

ISI Thomson:

- Hirsh: 16
- Sum of Times Cited: 673
- Sum of Times Cited without self-citations: 487

Scopus:

- Hirsh: 17 (all citations) / 13 (Exclude self citations of all authors)
- Sum of Times Cited: 880
- Sum of Times Cited without self-citations: 542

- **Invited speaker to foreign universities - 4;**
- **Patents: 13;**

International grants

- 1 FP7 grant as director (2010-2013, value 194.000 Euro);
- Management Committee member (Romanian representative) in the COST Actions CM1307 (2014-2018) and MP0901 (2009-2013);
- 1 NATO grant as director (2006-2007, value 5000 Euro);
- 1 bilateral grant as director with Moldova (2010-2013, value 10.000 Euro);

National grants

- two PN-II Ideas grant as director (Value: 450.000,00 Euro each) (with Romanian Ministry of Research Education);
- two CEEEX grants as director (Value: 900.000,00 Euro both) (with Romanian Ministry of Research Education);
- 1 CEEEX grant as partner director (Value: 100.000,00 Euro) (with Romanian Ministry of Research Education) ;
- 1 grant with World Bank as director (Value: 90.000,00 \$ SUA);
- 8 grants type A (with Romanian Ministry of Research Education) as director: 1998 (value 3.000 Euro), 2003 (value 2.000 Euro), 2004 (value 3.000 Euro), 2005 (value 5.000 Euro) ; 2006 (value 10.000 Euro), 2007 (value 10.000 Euro), 2008 (value 10.000 Euro).

Prof.dr.,

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LIST OF PUBLICATIONS

2015

149. Zbancioc, Ghe.; **Mangalagiu, I.I.**; Moldoveanu, C. Ultrasound assisted synthesis of imidazolium salts: an efficient way to ionic liquids, *Ultrason. Sonochem.*, **23**, 000, **2015**. Publisher: Elsevier B.V., CODEN: ULSOER ISSN: 1350-4177. DOI: 10.1016/j.ultsonch.2014.10.028

148. Antoci, V.; Mantu, D.; **Mangalagiu I. I.**: **One Pot Synthesis of Cyclophane with Imidazolium Skeleton. An Improved Method**, *Rev. Chim.-Bucharest*, **66(00)**, 000-000, **2015**. Publisher: SYSCOM 18 SRL, CODEN: RCBUAU ISSN: 0034-7752. ROMANIA.

147. Danac, R.; Daniloaia, T.; Antoci, V.; Vasilache, V.; **Mangalagiu I.I.**: Design, synthesis and antimycobacterial activity of some new azaheterocycles: phenanthroline with p-halogeno-benzoyl skeleton. Part V, *Lett. Drug. Des. Discov.*, **12**, 14-19, **2015**. Bentham Science Publishers, ISSN: 1570-1808.

2014

146. Zbancioc, Ghe.; Zbancioc, A.M; **Mangalagiu, I.I.** **Ultrasound and microwave assisted synthesis of dihydroxyacetophenone derivatives with or without 1,2-diazine skeleton**, *Ultrason. Sonochem.*, **21**, 802-811, **2014**. Publisher: Elsevier B.V., CODEN: ULSOER ISSN: 1350-4177. doi:10.1016/j.ultsonch.2013.09.012

145. Danac, R.; **Mangalagiu I. I.**: **Antituberculosis activity of nitrogen heterocycles derivatives: bipyridine derivatives. Part III**, *Eur. J. Med. Chem.*, **74**, 664-670, **2014**. ELSEVIER FRANCE-EDITIONS SCIENTIFIQUES MEDICALES ELSEVIER, FRANCE, ISSN: 0223-5234. <http://dx.doi.org/10.1016/j.ejmech.2013.09.061>

144. Kuchkova, K.; Aricu, A.; Barba, A.; Vlad, P.; Shova, S.; Secara, E.; Ungur, N.; Tuchilus, C.; Zbancioc, Ghe.; **Mangalagiu, I.I.**: **Design, Syntheses and Antimicrobial Activity of Some Novel Homodrimane Sesquiterpenoids with Diazine Skeleton**, *Med. Chem. Res.*, **23**, 1559-1568, **2014**. Springer, ISSN: 1054-2523 (Print) 1554-8120 (Online), DOI: 10.1007/s00044-013-0720-3

143. Balan, A.M.; Miron, A.; Tuchilus, C.; Rotinberg, P. Mihai, C.T.; **Mangalagiu, I.I.**; Zbancioc, Ghe. **Syntheses, Antimicrobial and Antitumoral Activity of Some Novel Dihydroxyacetophenone Derivatives**, *Med. Chem.*, **10**, 476-483, **2014**. Publisher: Bentham Science Publishers ISSN: 1573-4064 (Print) DOI: 10.2174/15734064113096660070

142. Pânzariu, A.; Măluțan, T.; **Mangalagiu, I.I.** **Effect of Ionic Liquids on Cellulosic Materials**, *BioResources*, **9(1)**, 282-292, **2014**. Publisher: North Carolina State University, ISSN: 1930-2126. <http://www.bioresources.com>

141. Bejan, V.; Mantu, D.; Cozna, D.G.; Ursu, C.; **Mangalagiu, I.I.**: **Design, synthesis and in vitro cytotoxicities of new tetra- and penta- cyclic azasteroids against human tumor cell lines**, *Med. Hyp.*, **82**, 11-15, **2014**. doi: 10.1016/j.mehy.2013.10.024 PERGAMON-ELSEVIER SCIENCE LTD, ENGLAND. ISSN: 0968-0896

140. Astefanei, D.; Buzgar, N.; Risca, M.; Moldoveanu, C.; **Mangalagiu, I.I.** **Synthesis, SERS, Raman and FT-IR investigation in conjunction with DFT theoretical simulations on N-(2-cyanoethyl)-imidazole. Part I.**, *Rev. Chim.-Bucharest*, **65(6)**, 684-688, **2014**. Publisher: SYSCOM 18 SRL, CODEN: RCBUAU ISSN: 0034-7752. ROMANIA.

139. Zbancioc, Ghe.; Moldoveanu, C.; Zbancioc, A.M.; **Mangalagiu, I.I.** **Microwave Assisted Synthesis of New Pyrrolopyridazine Derivatives with Acetophenone Skeleton. Part V**, *Curr. Microwave Chem.*, **1**, 41-46, **2014**. Publisher: Bentham Science Publishers, I-ISSN: 2213-3356 (Print) ISSN: 2213-3364 (Online)

2013

138. Maftai, D.; Zbancioc, Ghe.; Humelnicu, I.; **Mangalagiu, I.I.**: **Nonradiative singlet excited states in benzoyl-pyrrolopyridazines. Insights from Time Dependent DFT and steady-state electronic spectroscopy**, *J Phys Chem A*, **117**, 3165-3175, **2013**. ACS Publications, DOI: 10.1021/jp311396m

137. Roxana-Angela Tucaliuc, Valeriu V. Cotea, Marius Niculaua, Cristina Tuchilus, Dorina Mantu, **Mangalagiu, I.I.**: **New Pyridazine-Fluorine Derivatives: Synthesis, Chemistry and Biological Activity. Part II**, *Eur J Med Chem*, **67**, 367-372, **2013**. ELSEVIER FRANCE-EDITIONS SCIENTIFIQUES MEDICALES ELSEVIER, FRANCE, ISSN: 0223-5234. doi:10.1016/j.ejmech.2013.04.069

136. Kuchkova, K.; Aricu, A.; Barba, A.; Vlad, P.; Shova, S.; Secara, E.; Ungur, N.; Zbancioc, Ghe.; **Mangalagiu, I.I.**: **An Efficient and Straightforward Method to New Homodrimane Sesquiterpenoids with Diazine Units**, *Synlett*, **24**, 697-700, **2013**. Publisher: Georg Thieme Verlag, CODEN: SYNLES ISSN: 0936-5214. Journal written in English. DOI: 10.1055/s-0032-1318253

135. Drochioiu, G.; Ion, L.; Ciobanu, C.; Habasescu, L.; **Mangalagiu, I.I.**: **Mass spectrometric approach of high pH- and copper-induced glutathione oxidation**, *Eur J Mass Spectrom.*, **19**, 71-75, **2013**. IM Publications LLP 2013, ISSN: 1469-0667doi: 10.1255/ejms.1210

134. Balaes, T.; **Mangalagiu I.I.**; Tanase, C.: **Lignicolous macromycetes: potential candidates for bioremediation of synthetic dyes**, *Rev Chim-Bucharest*, **64(9)**, 930-935, **2013**. Publisher: SYSCOM 18 SRL, CODEN: RCBUAU ISSN: 0034-7752. ROMANIA.

133. Mantu, D.; Antoci, V.; **Mangalagiu I. I.**: **Design, synthesis and antituberculosis activity of some new pyridazine derivatives: bis-pyridazine. Part IV**, *Infectious Disorders-Drug Targets*, **13 (5)**, 344-351, **2013**. Publisher: Bentham Science Publishers, ISSN: 2212-3989 (Online) ISSN: 1871-5265 (Print). DOI: 10.2174/1871526514666140217144707

132. Andriana Surleva, Marius Zaharia, Laura Ion, Robert Vasile Gradinaru, Gabi Drochioiu, and **Mangalagiu, I.I.**: **Ninhydrin-Based Spectrophotometric Assays of Trace Cyanide**, *Analele Stiintifice ale Universitatii "Al. I. Cuza" din Iasi- Acta Chimica Iasi*, **21**, 57-70, **2013**. Publisher: Ed. Universitatii Al.I.Cuza Iasi, Romania. ISSN (Online) 2067-2446, DOI: 10.2478/achi-2013-0006

Papers published in proceedings:

Mangalagiu, I.I.: Azaheterocycles: an efficient way towards derivatives with multiple functions, *Analele Stiintifice ale Universitatii "Al. I. Cuza" din Iasi, Acta Chimica Iasi, 21(2) (supplement)*, 14, **2013**.

VODA, I., TURTA, C., ZBANCIOC, GHE., MOLDOVEANU, C., APOSTU, M.O., MANGALAGIU, I.I. SC 6. Synthesis, spectral characterization, and x-ray structure of a new coordination compound of cobalt(II) and n,n'-(butane-1,4-diyl)bis(2-(1h-benzimidazol-1-yl)acetamide)	31
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131. Bejan, V.; Mantu, D.; **Mangalagiu, I.I.**: **Ultrasound and microwave assisted synthesis of isoindolo-1,2-diazine: a comparative study**, *Ultrason Sonochem*, **19**, 999-1002, **2012**. Publisher: Elsevier B.V., CODEN: ULSOER ISSN: 1350-4177. doi: 10.1016/j.ultsonch.2012.02.012

130. Zbancioc, Ghe.; Florea, O.; Jones, P; **Mangalagiu, I.I.**: **An efficient and selective way to new highly functionalized coronands or spiro derivatives using ultrasonic irradiation**, *Ultrason Sonochem*, **19**, 399-403, **2012**. Publisher: Elsevier B.V., CODEN: ULSOER ISSN: 1350-4177. doi: 10.1016/j.ultsonch.2011.08.001

129. Cuzan, O.; Shova, S.; Turta,C.; **Mangalagiu I.I.**: **N,N0-(1,4-Phenylene)bis(4-chlorobutan amide)**, *Acta Cryst E*, **E68**, o463, **2012**. doi:10.1107/S1600536812001341. ISSN 1600-5368

128. Zbancioc, G.; Gradinaru, R.; Drochioiu, G.; **Mangalagiu, I.I.**: **Nicotine and tobacco alkaloids: A GC-MS approach**, *International Journal of Criminal Investigation*, **2(1)**, 3-10, **2012**. Publisher: AIT Laboratories s.r.l., Romania. Online ISSN:2247-0271

127. Zbancioc, G.; Drochioiu, G.; **Mangalagiu, I.I.**: **Nicotine and tobacco alkaloids: A GC-MS approach. Part 2: The tobacco and smoking**, *International Journal of Criminal Investigation*, **2(4)**, 251-257, **2012**. Publisher: AIT Laboratories s.r.l., Romania. Online ISSN:2247-0271

Papers published in proceedings:

Moldoveanu, C.; Zbancioc, G.; Antoci, V.; **Mangalagiu, I.I.**: **ULTRASOUND ASSISTED SYNTHESIS OF NEW IONIC LIQUIDS IMIDAZOLE BASED**, 11th International Conference on Global Research and

Education Interacademia 27-30 August **2012**, Budapest Hungary. (pp. 257-260) ISBN: 978-615-5018-37-4.

Zbancioc, G.; Moldoveanu, C.; Mantu D.; **Mangalagiu, I.I.**: **MICROWAVE ASSISTED SYNTHESIS OF NEW HIGHLY FLUORESCENT PYRROLO-IMIDAZOLE**, 11th International Conference on Global Research and Education Interacademia 27-30 August **2012**, Budapest Hungary. (pp. 483-487) ISBN: 978-615-5018-37-4.

G. Drochioiu, A. Petre, R. Gradinaru, G. Zbancioc, L. Habasescu, L. Ion - S. Bancila, C. Andries, M. Murariu and I. Mangalagiu - METAL-PEPTIDE COMPLEXES INVOLVED IN THE NEURODEGENERATIVE DISEASES, *Analele Stiintifice ale Universitatii "Al. I. Cuza" din Iasi, Acta Chimica Iasi, 19 (supplement), 30, 2012.*

I. Mangalagiu, M. Zaharia, G. Drochioiu, R. Gradinaru, A. Pui, S. Bancila and G. Zbancioc - DINITROPHENOLS AND CYANIDE: ANALYTICAL AND TOXICOLOGICAL APPROACH *Analele Stiintifice ale Universitatii "Al. I. Cuza" din Iasi, Acta Chimica Iasi, 19 (supplement), 32, 2012.*

V. Bejan (Antoci), D. Mantu, Ghe. Zbancioc, C. Deleanu, I. I. Mangalagiu -SYNTHESIS UNDER ULTRASOUND IRRADIATION OF NEW PYRROLODIAZINIC COMPOUNDS WITH ACETOPHENONIC CHAIN, *Analele Stiintifice ale Universitatii "Al. I. Cuza" din Iasi, Acta Chimica Iasi, 19 (supplement), 55, 2012.*

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22. Dima, St.; **Mangalagiu, I.**; Caprosu, M.; Constantinescu, M.; Humelnicu, I. and Petrovanu, M. : **The regiochemistry of the cycloaddition of 1-methylphthalazinium ylides to non-symmetrically substituted olefins**, *J. Serb. Chim. Soc.*, **62 (2)**, 105-111, **1997**. Publisher: Serbian Chemical Society, CODEN: JSCSEN ISSN: 0352-5139. Journal written in English. CAN 126:263743 AN 1997:176765 CAPLUS

21. Ungureanu, M.; **Mangalagiu, I.**; Grosu, G. and Petrovanu, M.: **Antimicrobial activity of some new pyridazine derivatives**, *Ann. Pharm. Fr.*, **55(2)**, 69-72 , **1997**. Publisher: Masson, CODEN: APFRAD ISSN: 0003-4509. Journal written in French. CAN 126:303587 AN 1997:241522 CAPLUS

20. Dima, St.; **Mangalagiu, I.**; Caprosu, M.; Petrovanu, M.: **Basicity of some 1-methylphthalazinium ylides**, *Analele Stiintifice ale Universitatii "Al. I. Cuza" din Iasi, Chimie*, **5(s1c)**, 63-68, **1997**. Publisher: Editura Universitatii "Al. I. Cuza" din Iasi, CODEN: ASUCFZ ISSN: 1221-5341. Journal written in French. CAN 132:180262 AN 2000:28704 CAPLUS

19. Dima, St.; **Mangalagiu, I.**; Caprosu, M.; Petrovanu, M.: **Inactivation of 1-methylphthalazinium ylides**, *Analele Stiintifice ale Universitatii "Al. I. Cuza" din Iasi, Chimie*, **5(s1c)**, 91-94, **1997**. Publisher: Editura Universitatii "Al. I. Cuza" din Iasi, CODEN: ASUCFZ ISSN: 1221-5341. Journal written in French. CAN 132:207815 AN 2000:28709 CAPLUS

18. Caprosu, M.; **Mangalagiu, I.**; Sirbu-Maftei, D.; Olariu, I.; Petrovanu, M.: **Studies on pyridazinium ylides. II. Stereochemistry of 3+2 dipolar cycloadditions of E-Z olefins**, *Analele Stiintifice ale Universitatii "Al. I. Cuza" din Iasi, Chimie*, **5(s1c)**, 95-102, **1997**. Publisher: Editura Universitatii "Al. I. Cuza" din Iasi, CODEN: ASUCFZ ISSN: 1221-5341. Journal written in French. CAN 132:207816 AN 2000:28710 CAPLUS

17. Vatajanu, A.; Panaitescu, L.; **Mangalagiu, I.**; Popovici, E.; Uglea, C.: "Compozite zeolitice cu activitate biologica.", *Roumanian Journal of Biological Sciences*, pag.IV/2, **1997**.

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16. **Mangalagiu, I.**; Druta, I.; Constantinescu, M.; Humelnicu, I.; Petrovanu, M.: **Pyridazinium ylides. Regiochemistry**, *Tetrahedron*, **52 (26)**, 8853-8862, **1996**. Publisher: Elsevier, CODEN: TETRAB ISSN: 0040-4020. DOI: 10.1016/0040-4020(96)00432-2. Journal written in English. CAN 125:167921 AN 1996:392368 CAPLUS

15. **Mangalagiu, I.**; Benneche, T.; Undheim, K.: **Trialkylalanes in palladium-catalyzed chemo- and regioselective alkylations**, *Tetrahedron Lett.*, **37(8)**, 1309-1312, **1996**. Publisher: Elsevier, CODEN: TELEAY ISSN: 0040-4039. DOI: 10.1016/0040-4039(95)02381-X Journal written in English. CAN 124:289421 AN 1996:132039 CAPLUS

14. **Mangalagiu, I.**; Benneche, T.; Undheim, K.: **Ethenylation and alkynylation in palladium-catalyzed carbosubstitution in heteroazines**, *Organic Biomol. Chem. (former Acta Chim. Scand.)*, **50**, 914-917, **1996**. Publisher: Munksgaard, CODEN: ACHSE7 ISSN: 0904-213X. DOI: 10.3891/acta.chem.scand.50-0914. Journal written in English. CAN 126:47173 AN 1996:678162 CAPLUS

13. Ciocoiu, I.; **Mangalagiu, I.**; Guran, C.; Jitaru, I.; Meghea, A.: **Coordination compounds of some divalent metals with hydrazine derivatives**, *Rev. Roum. Chim.*, **41(7-8)**, 567-572, **1996**. Publisher: Editura Academiei Romane, CODEN: RRCHAX ISSN: 0035-3930. Journal written in English. CAN 125:346151 AN 1996:687943 CAPLUS

12. Dima, St.; **Mangalagiu, I.**; Caprosu, M.; Petrovanu, M.: **Syhtese et charaterisation de sels et ylures dans la serie de 1-methylphthalazine**, *Analele Stiintifice ale Universitatii "Al. I.*

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11. Sirbu-Maftei, D.; **Mangalagiu, I.**; Caprosu, M.; Petrovanu, M.: **Syhtese et charaterisation de nouvelle sels et ylures dans la serie de pyridazine**, *Analele Stiintifice ale Universitatii "Al. I. Cuza" din Iasi, Chimie*, **4(s1c)**, 157-162, **1996**. Publisher: Editura Universitatii "A.I.Cuza" Iasi, ISSN: 1221-5341.

10. **Mangalagiu, I.**; Ciocoiu, I.; Guran, C.; Jitaru, I.; Meghea, A.: **Complex compounds of some 3d- metals with 3-p-bromophenyl-pyridazinone**, *Analele Stiintifice ale Universitatii "Al. I. Cuza" din Iasi, Chimie*, **4(s1c)**, 145-150, **1996**. Publisher: Editura Universitatii "A.I.Cuza" Iasi, ISSN: 1221-5341.

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9. **Mangalagiu, I.**: **New disubstituted carbanion ylides from pyridazine**, *Organic Biomol. Chem. (former Acta Chim. Scand.)*, **49(10)**, 778-780, **1995**. Publisher: Munksgaard, CODEN: ACHSE7 ISSN: 0904-213X. DOI: 10.3891/acta.chem.scand.49-0778 Journal written in English. CAN 124:55886 AN 1995:834473 CAPLUS

8. Ciocoiu, I.; **Mangalagiu, I.**; Guran, C.; Jitaru, I.; Meghea, A.: **Complex compounds of some 3d- metals with 3-p-bromophenyl-pyridazone**, *Analele Stiintifice ale Universitatii "Al. I. Cuza" din Iasi, Chimie*, **3(s1c)**, 129-134, **1995**. Publisher: Editura Universitatii "A.I.Cuza" Iasi, ISSN: 1221-5341.

Papers published „in extenso” in proceedings:

Qingleo L., **Mangalagiu I.**, Benneche T., Undheim K. (1995) *Proc. 8th IUPAC OMCOS Symp.*, pp. 159.

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7. **Mangalagiu, I.**; Caprosu, M.; Druta, I.; Petrovanu, M.: **3-p-Halogenophenyle-pyridazinium-ylures (III)**, *Analele Stiintifice ale Universitatii "Al. I. Cuza" din Iasi, Chimie*, **2(s1c)**, 49-56, **1994**. Publisher: Editura Universitatii "A.I.Cuza" Iasi, ISSN: 1221-5341.

6. **Mangalagiu, I.**; Druta, I.; Caprosu, M.; Petrovanu, M.: **3-p-Halogenophenyle-pyridazinium-ylures (IV)**, *Analele Stiintifice ale Universitatii "Al. I. Cuza" din Iasi, Chimie*, **2(s1c)**, 57-64, **1994**. Publisher: Editura Universitatii "A.I.Cuza" Iasi, ISSN: 1221-5341.

5. **Mangalagiu, I.**; Caprosu, M.; Ungureanu, M.; Petrovanu, M.: **Nouveaux derives 1,2-diaziniques douse d'activite antimicrobienne. V.**, *Analele Stiintifice ale Universitatii "Al. I. Cuza" din Iasi, Chimie*, **2(s1c)**, 65-67, **1994**. Publisher: Editura Universitatii "A.I.Cuza" Iasi, ISSN: 1221-5341.

4. Caprosu, M.; Ungureanu, M.; Dima, St.; **Mangalagiu, I.**; Grosu, G., Petrovanu, M.: **L'activite biologiques de quelques nouveaux pyridazinium et phthalazinium ylures**, *Revista Medico Chirurgicala Iasi*, **98(1-4)**, 117-120, **1994**.

1993-1992

3. **Mangalagiu, I.**; Druta, I.; Caprosu, M.; Petrovanu, M.: **3-p-Halogenophenyle-pyridazinium-ylures (I)**, *Analele Stiintifice ale Universitatii "Al. I. Cuza" din Iasi, Chimie*, **1(s1c)**, 51-59, **1993**. Publisher: Editura Universitatii "A.I.Cuza" Iasi, ISSN: 1221-5341.

2. **Mangalagiu, I.**; Druta, I.; Caprosu, M.; Petrovanu, M.: **Addition des 3-p-bromoophenyle-pyridazinium-ylures au DMAD**, *Analele Stiintifice ale Universitatii "Al. I. Cuza" din Iasi, Chimie*, **1(s1c)**, 65-69, **1993**. Publisher: Editura Universitatii "A.I.Cuza" Iasi, ISSN: 1221-5341.

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- **Invited conferences**

- ‘Microwave Assisted Reactions in Organic Synthesis’
Technische Universität Braunschweig, Germany, August 27, 2005.

- ‘Nanomaterials: design, synthesis and potential applications’
Technische Universität Braunschweig, Germany, July 18, 2007.

- ‘Coronands and Azaheterocycles: New Approches’
Technische Universität Braunschweig, Germany, June 27, 2008.

- ‘Nanomaterials with Azaheterocycle Skeleton’
Universite D’Angers, France, July 10, 2008.

Patents

Number of patents:

12. Hagi, B.; Sandu, I.; Vasilache, V.; Tura, V.; **Mangalagiu, I.I.**; Mungiu, O. C.; Filote, C.; Sandu, A. Proces for preparing an oily nanodispersion with tissue regenerative capacity (Procedeu de obtinere a unor nanodispersii uleioase cu proprietati tisulare regenerative). Patent RO, RO127723-A2, 26.11.2010.

Property Rights Owner: Universitatea Stefan cel Mare Suceava, Romania

11. Hagi, B.; Sandu, A.; Lupascu, T.; Chirazi, M.; **Mangalagiu, I.I.**; Sandu, I.; Ciobanu, M.; Vasilache, V. Poudrer with homeostatic and regenerative capacity (Pudra avind capacitate homeostatica si regenerativa). Patent MD, No. 4117/30.07.2010, AGEPI Chisinau, Rep. Moldova.

Property Rights Owner: Institutul de Chimie al Academiei de Stiinte a Moldovei, Moldova

10. Iurea, D. (RO); Chintea, P. (MD); **Mangalagiu, I.I.** (RO); Munteanu, N. (RO); Chirilov, E. (MD); Cotenco, E. (MD); Iurea, R. (RO). Treatment process of Apple Tree (Procedeu de cultivare a marului). Patent MD, No. 383/19.11.2010, AGEPI Chisinau, Rep. Moldova.

Property Rights Owner: Institutul de Genetica si Fiziologia Plantelor al Academiei de Stiinte a Moldovei, Moldova

9. Iurea, D. (RO); Munteanu, N. (RO); **Mangalagiu, I.I.** (RO); Chintea, P. (MD); Cotenco, E. (MD); Sirmomeatnikov, I. (MD). Biostimulation procedure of Tomato Crop (Procedeu de tratare extraradicalara a plantelor de tomate). Patent MD, No. 271/30.09.2010, AGEPI Chisinau, Rep. Moldova.

Property Rights Owner: Institutul de Genetica si Fiziologia Plantelor al Academiei de Stiinte a Moldovei, Moldova

8. Hagi, B.; Sandu, I.; Lupascu, T.; Vasilache, V.; Tura, V.; **Mangalagiu, I.I.**; Sandu, A.; Gonciar, V. Procedure for obtaining of an injectable silver oil nanodispersion (Procedeu de obtinere a unor nanodispersii uleioase de argint injectabile). Patent MD, No. 4106/03.12.2010, AGEPI Chisinau, Rep. Moldova.

Property Rights Owner: Institutul de Chimie al Academiei de Stiinte a Moldovei, Moldova

7. Iurea, D. (RO); **Mangalagiu, I.I.** (RO); Munteanu, N. (RO); Mustea, M. (RO); Chintea, P. (MD); Chirilov, A. (MD); Cotenco, E. (MD); Iurea, P. (RO); Iurea, R. Stimulation procedure of Grapes crop (Procedeu de cultivare a vitei de vie). Patent MD, No. 235/31.07.2010, AGEPI Chisinau, Rep. Moldova.

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6. Iurea, D. (RO); Chintea, P. (MD); **Mangalagiu, I.I.** (RO); Munteanu, N. (RO); Istrate, M. (RO); Cotenco, E. (MD); Iurea, R. (RO). Biostimulation procedure of Pepper Crop (Procedeu de tratare a plantelor de ardei gras). Patent MD, No. 342/19.11.2010, AGEPI Chisinau, Rep. Moldova.

Property Rights Owner: Institutul de Genetica si Fiziologia Plantelor al Academiei de Stiinte a Moldovei, Moldova

5. Sandu, I.; Arhire, P.; Ticu, C.; **Mangalagiu, I.**; Bejan, D.; Munteanu, C.; Samoil, G.; Ciocârlie, I.; Pinte, A.: Putty for wood furniture (Chit pentru mobila). Romanian Patent no. 112287 B1/ 1997 CODEN: RUXXA3 RO 112287 B1 19970730 Patent written in Romanian. Application: RO 91-146899 19910211. Priority: . CAN 133:60200 AN 2000:472672 CAPLUS

Property Rights Owner: Politechnical Institute of Iasi, Romania

4. Săhleanu, V.; Sandu, I.; Bejan, D.; **Mangalagiu, I.**; Leniuc, V.(1995): Production of manganese nitrate concentrates or crystal suspensions (Procedeu pentru obtinerea cristalelor sau a solutiilor apoase, concentrate de azotat de mangan). Romanian Patent no. 3-212/ 1995 CODEN: RUXXA3 RO 109728 B1 19950530 Patent written in Romanian. Application: RO 91-146720 19910114. Priority: . CAN 132:323631 AN 2000:350352 CAPLUS

Property Rights Owner: Politechnical Institute of Iasi, Romania

3. Verdes, N.; Sandu, I.; **Mangalagiu, I.**(1994): Disinfection of full or empty silos (Procedeu de dezinfectare a silozurilor in stare incarcata sau dupa golire). Romanian Patent no. 7-1008/ 1994. CODEN: RUXXA3 RO 108216 B1 19940331 Patent written in Romanian. Application: RO 91-146646 19910103. Priority: . CAN 132:318907 AN 2000:350310 CAPLUS

Property Rights Owner: Politechnical Institute of Iasi, Romania

2. Sandu, I.; Cecal, Al.; Capra, A.S.; Cretu, C.; Pascu, M.; Angheluta, C.; Hultoana, I.; **Mangalagiu, I.**(1994): Multicomponent powder for surface alloying of parts during casting (Pulbere multicomponenta, pentru alierea superficiala a pieselor, in procesul de turnare). Romanian Patent no. 108161 B1/ 1994 CODEN: RUXXA3 RO 108161 B1 19940228 Patent written in Romanian. Application: RO 90-145181 19900528. Priority: . CAN 132:268131 AN 2000:273723 CAPLUS

Property Rights Owner: Politechnical Institute of Iasi, Romania

1. Sandu, I.; Dogaru, V.; Furnică, E.; **Mangalagiu, I.**; Agop, I.(1991): Fabrication of ceramic varistors (Procedeu de obtinere a varistorilor ceramici). Romanian Patent no. 501/ 1991. (Intreprinderea "Electroarges", Curtea de Arges, Rom.). CODEN: RUXXA3 RO 104904 B1 19940930 Patent written in Romanian. Application: RO 90-144862 19900420. Priority: . CAN 124:162371 AN 1996:133043 CAPLUS

Property Rights Owner: Electroarges Curtea de Arges Manufactory, Romania

Books

International (in English, chapters):

1. A. K. Haghi (Ed.), In: Electrospun Nanofibers and Nanotubes: Research Advances,

Chapter 14- Electrospinning of gelatin/chitin composite nanofibers, by: V. Tura, F. Tofoleanu, **I. Mangalagiu**, Mindru, T.; Brinza, F.; Sulitanu, N.; Sandu, I.; Raileanu, D.; Ionescu, C., Nova Science Publishers, New York, US (Series: Nanotechnology Science and Technology) 2009, pp. 239-252. **ISBN: 978-1-60741-834-4**

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2. A. K. Haghi; G. E. Zaikov (Eds.), In: Modern Concepts in Nanotechnology Research, 2013, Pages 1-186, Publisher: Nova Science Publishers, Inc.; ISBN: 978-161761948-9.

Chapter 10- Electrospinning of gelatin/chitin composite nanofibers, by: V. Tura, F. Tofoleanu, **I. Mangalagiu**, Mindru, T.; Brinza, F.; Sulitanu, N.; Sandu, I.; Raileanu, D.; Ionescu, C., Pages 145-156. **Republication.**

National (in Romanian language):

1. G. Drochioiu, R. Gradinaru, M. Risca, **I. I. Mangalagiu**: "Toxicologie"(392 pag.), Ed. Universitatii "Al.I.Cuza" Iasi, 2008, Iasi. ISBN: 978-973-703-888-3
1. G. Drochioiu, M. Murariu, **I. I. Mangalagiu**: "Plantele medicinale si metalele grele"(143 pag.), Ed. Tehnopress, 2011, Iasi. ISBN: 978-973-873-0
2. Dorina Iurea, Gheorghita Zbancioc, Geanina Mangalagiu, **I.I. Mangalagiu**: " Manual de laborator. Vol II: Steroide: compusi naturali si analogi de sinteza" (186 pag.), Ed. Universitatii "Al.I.Cuza" Iasi, 2008, Iasi. ISBN: 978-973-703-451-9
3. Costel Moldoveanu, Gheorghita Zbancioc, Roxana Tucaliuc, Ana-Maria Zbancioc, Ondina Boita, **I.I. Mangalagiu**: " Manual de laborator. Vol I: Bazele chimiei organice "(174 pag.), Ed. Universitatii "Al.I.Cuza" Iasi, 2008, Iasi. ISBN: 978-973-703-336-9
4. M. Caprosu, C. Moldoveanu, **I.I. Mangalagiu**: "Exercitii si probleme de chimie organica" (294 pag.), Ed. Universitatii "Al.I.Cuza" Iasi, 2005, Iasi. ISBN: 973-703-071-0
5. G. Drochioiu, **I. I. Mangalagiu**, I.Druta : "Biochimie generala"(276 pag.), Ed. Casa Editoriala Demiurg, 2002, Iasi. ISBN: 973-8076-12-6
6. G. Drochioiu, **I. I. Mangalagiu**, I.Druta "Elemente de teorie si practica toxicologica"(151 pag.), Ed. Casa Editoriala Demiurg, 2001, Iasi. ISBN: 973-8076-21-8
7. **I. I. Mangalagiu**: "Probleme de chimie organica" (146 pagini), Ed. Dosoitei, 2000, Iasi. ISBN: 973-9135-83-8
8. **I. I. Mangalagiu**: "Alcaloizi Morfinici si Analogi de sinteza" (170 pagini), Ed. Dosoitei, 2000, Iasi. ISBN: 973-9135-89-7
9. M. Petrovanu, M. Caprosu, **I. I. Mangalagiu**: "Istoria Chimiei in Romania pana in 1944" (128 pagini), Ed. Universitatii "Al.I.Cuza" Iasi, 1997. ISBN: 973-9149-99-5

Curses:

10. **I. I. Mangalagiu**: "Relatii între Structura Substanțelor și Activitatea Lor Biologică" (180 pagini), Editura Universitatii "Al.I.Cuza" Iasi, Centrul de Multiplicare, 1997.
11. **I. I. Mangalagiu**, Ramona Danac; Costel Moldoveanu; Gheorghita Zbancioc, CHIMIE SI TOXICOLOGIE JUDICIARA. SEPARATOLOGOLOGIE JUDICIARA, Editura „AIT –SRL Laboratory”, Bucuresti 2011. (217 pag.) ISBN: 978-606-8363-09-7x2.

GRANTS

- 14 grants as director;
- 11 other Grants as collaborator.

Identificaion data:

- **International grants as director- 3**

1. Grant FP7- People-2009-IRSES-No. 246902

Title: **Photocatalytic Clusters Complexes for Artificial Photosynthesis Applications**

Finance from: **European Union- FP7 program IRSES**

Directors: prof.dr. Ionel Mangalagiu, Romania/ prof. Dr. Andrew Benniston, UK (coordinator)/
prof.dr. Constantin Turta, Moldova

Duration: 2010-2012, grant no. 246902/2009

Value: Total: 194.400,00 Euro

2. Bilateral Grant Romania-Moldova

Title: **Biologically active compounds with terpenoid and azaheterocycle skeleton through conventional and nonconventional methods**

Finance from: Romanian (ANCS, PN-II program, Modul III) and Moldavian Government

Directors: prof.dr. Ionel Mangalagiu, Romania/ CP I.dr. Aculina Aracu, Academy of Science of Rep. Moldova

Duration: 2010-2012 grant nr. 418/02.06.2010

Value: 41.376 lei (10.000 Euro aprox)

3. Grant NATO- Collaborative Linkage Grant

Title: **Synthesis of Highly Fluorescent Materials Through Eco-friendly Methods**

Finance from: **NATO PROGRAMME SECURITY THROUGH SCIENCE,**

Directors: prof.dr. Ionel Mangalagiu, Romania/ prof. Dr. Ulrich Groth, Germania

Duration: 2006-2007 grant no. PDD(CP)-(CBP.EAP.CLG 982499)/20.11.2006

Value : 5.000,00 Euro

Romanian representative members in the Management Committee:

4. Grant COST-Action MP0901

Title: **Designing novel materials for nanodevices - from Theory to Practice (NanoTP)**

Finance from: **European Union- FP7 program COST**

Function: Romanian representative members in the Management Committee: prof.dr. Ionel Mangalagiu / dr Maria Zaharescu

Duration: 2010-2012

Value: Total: 200.000,00 Euro.

5. Grant COST-Action MP1307

Title: **Targeted chemotherapy towards diseases caused by endoparasites**

Finance from: **European Union- FP7 program COST**

Function: Romanian representative members in the Management Committee: prof.dr. Ionel Mangalagiu / dr Radu Silaghi

Duration: 2014-2018

Value: Total: 200.000,00 Euro.

- **National grants as director- 13**

1. Director: Prof. dr. IONEL MANGALAGIU

Type of grant: PN II-Ideas, grant PN-II-DE-PCE-2011-3-0038, No. 268/2011

Finance from: **CNCSIS**, Romanian Ministry of Education and Research

Duration: 2012-2014

Title: **New polifunctional nitrogen derivatives (heterocycles, podants and macrocycles) as smart versatile building blocks for multiple tasks**

Value : **350.000,00 €**

1. Director: **Prof. dr. IONEL MANGALAGIU**

Type of grant: PN II-Ideas, grant. No. 88/2008

Finance from: **CNCSIS**, Romanian Ministry of Education and Research

Duration: 2009-2011

Title: **Chemosensors with Macrocyclic Skeleton**

1st year: 2009. Value : 25.000,00 €

2nd year: 2010. Value : 35.000,00 €

3rd year: 2011, Value : 45.000,00 €

2. Director: **Prof. dr. IONEL MANGALAGIU**

Type of grant: CEEEX (Research of Excellency), grant no. 36/2005

Finance from: **MATNANTECH**, Romanian Ministry of Education and Research

Value: 450.000,00 €

Duration: 2005-2008

Title: **Macrocycles of Type Coronand Through Conventional and Nonconventional Methods (Microwave and Ultrasounds)**

3. Director: **Prof. dr. IONEL MANGALAGIU**

Type of grant: CEEEX (Research of Excellency), grant no. 49/2005

Finance from: **BIOTECH**, Romanian Ministry of Education and Research

Value: 450.000,00 €

Duration: 2005-2008

Title: **Obtaining, Physical-Chemical and Biological Characterization of Some Steroid-Glicosid Biopreparations of Vegetal Origin**

4. Vice-director: **Prof. dr. IONEL MANGALAGIU**

Type of grant: CEEEX (Research of Excellency), grant no. **06-D11-106/2006**

Finance from: **CERES**, Romanian Ministry of Education and Research

Value: 450.000,00 €

Duration: 2006-2008

Title: **New Anti-HIV and Anti-fungus Nanocompounds Incorporated in Cyclodextrine**

5-7. Director: **Prof. dr. IONEL MANGALAGIU**

Type of grant: RESEARCH GRANT , Type A

Value: 10.000 €

Title: **Using Nonconventional Methods in Organic Chemistry: Microwave and Ultrasounds**

Finance from: **CNCSIS**, Romanian Ministry of Education and Research

Duration: 2006-2008

1st year: 2006, cod 1155, theme 16. Value : 10.000,00 €

2nd year: 2007, cod 1155, theme 28. Value : 10.000,00 €

3rd year: 2008, cod 1155, theme 19. Value : 10.000,00 €

8-10. Director: **Prof. dr. IONEL MANGALAGIU**

Type of grant: RESEARCH GRANT , Type A

Title: **Microwave Assisted Reactions in the Heterocycle Series**

Finance from: **CNCSIS**, Romanian Ministry of Education and Research

Duration: 2003-2005

1st year: 2003, cod 1322, theme 13. Value : 2.000,00 €

2nd year: 2004, cod 1322, theme 20. Value : 3.000,00 €

3rd year: 2005, cod 1322, theme 29. Value : 5.000,00 €

11. Director: Prof. dr. IONEL MANGALAGIU and Prof.dr.doc MAGDA PETROVANU

Type of grant: RESEARCH GRANT, Type C , cod CNCSIS 109.

Value: 90. 000.00 \$ SUA

Title: **New Research in the Class of Cycloimmonium Ylides (Nitrogen Ylides). Syntheses, Structure, Reactivity and Practical Applications**

Duration: 1999-2002

Finance from: World Bank (70%) Romanian Government (30%)

12. Director: Prof. dr. IONEL MANGALAGIU

Type of grant: RESEARCH GRANT , Type A

Value: 3.000 \$ SUA

Title: **Research concerning obtaining, structure and reactivity of diazinium ylides**

Duration: 1998

Finance from: **CNCSIS**, Romanian Ministry of Education and Research, grant no. 15, theme 23

- **11 other Grants as collaborator (value aprox. 30.000 €).**