

Professor dr. IONEL MANGALAGIU

"Al. I. Cuza" University IASI

Faculty of CHEMISTRY

Organic Chemistry Laboratory

11 Carol I Bd., 700506 Iasi

R O M A N I A

Tel. + (40) 232 201343

Fax.+(40) 232 201313

E-mail: ionelm@uaic.ro

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Mangalagiu, I.; Ciociu, 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 "Al.I.Cuza" Iasi, ISSN: 1221-5341.

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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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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 "Al.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 Aproches'
Technische Universität Braunschweig, Germany, June 27, 2008.

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

Patents

Number of patents:

1. 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 cultivare 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

2. 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 tratare a marului). Patent MD, No. 383/19.11.2010, AGEPI Chisinau, Rep. Moldova.

3. Hagi, B.; Sandu, A.; Lupascu, T.; Chirazi, M.; **Mangalagiu, I.I.**; Sandu, I.; Ciobanu, M.; Vasilache, V. Pouders with homeostatic and regenerative capacity (Pudra avind capacitate

homeostatica si regenerativa). Patent MD, No. 4117/30.07.2010, AGEPI Chisinau, Rep. Moldova. Mold. Exam. Pat. Appl. (2011), MD 4117 B1 20110731

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

5. 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.

6. 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. Mold. Exam. Pat. Appl. (2011), MD 4106 B1 20110430

7. Iurea, D. (RO); **Mangalagiu, I.I.** (RO); Chintea, P. (MD); Cotenco, E. (MD); Iurea, V. (RO); Iurea, A. (RO); Iurea, R. (RO). Using of steroid glycoside 3-O- beta-D-glucopiranosil(1-2)-[O-beta-D-xilopiranosil (1-3)]- O- beta-D-glucopiranosil(1-4)-[O-beta-D-galactopiranosil-5alfa-furostan-2alfa, 3beta,22alfa,26- tetraol-26- O-beta-D- glucopiranosid- as antitumor compound (Utilizarea glicozidei glycoside 3-O- beta-.... ca si compus ca actiune antitumorală). Patent MD, No.11752/27.10.2008 , AGEPI Chisinau, Rep. Moldova.

2. Sandu, I.; Arhire, P.; Ticu, C.; **Mangalagiu, I.**; Bejan, D.; Munteanu, C.; Samoil, G.; Ciocârliie, I.; Pinte, A.: Putty for wood furniture. 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

3. Săhleanu, V.; Sandu, I.; Bejan, D.; **Mangalagiu, I.**; Leniuc, V.(1995): Production of manganese nitrate concentrates or crystal suspensions. 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

4. 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. 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

5. Verdes, N.; Sandu, I.; **Mangalagiu, I.**(1994): Disinfection of full or empty silos. 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

6. Sandu, I.; Dogaru, V.; Furnică, E.; **Mangalagiu, I.**; Agop, I.(1991): Pathway to get ceramic varistors. 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

Books

International (in English language):

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

Web: https://www.novapublishers.com/catalog/product_info.php?products_id=10299

National (in Romanian language):

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. Dosoftei, 2000, Iasi. ISBN: 973-9135-83-8
8. **I. I. Mangalagiu**: "Alcaloizi Morfinici si Analogi de sinteza" (170 pagini), Ed. Dosoftei, 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

Courses:

10. **I. I. Mangalagiu**: "*Relatii intre Structura Substantelor si Activitatea Lor Biologica*" (180 pagini), Editura Universitatii "Al.I.Cuza" Iasi, Centrul de Multiplicare, 1997.

GRANTS

- 14 grants as director;
- 11 other Grants as collaborator (value aprox. 30.000 €)

Identificaiion 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, grant COST Action MP0901

Value: Total: 200.000,00 Euro.

• National grants as director- 13

1. Director: Prof. dr. IONEL MANGALAGIU

Type of grant: PN II-Ideas, grant. 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 €).**

Citation in prestigious monographies: over 50

1. Groziak, Michael P. Six-membered ring systems: diazines and benzo derivatives. Progress in Heterocyclic Chemistry (1998), 10 251-274. CODEN: PRHCEP ISSN:0959-6380. CAN 130:139265 AN 1998:806474 CAPLUS

Citations-2

96T8852) Mangalagiu, I.; Acta Chem Scand 1997, 51, 927

96T8853) Mangalagiu, I.; Tetrahedron 1996, 52, 8853

2. Dennis, N. Addition reactions: cycloaddition. Organic Reaction Mechanisms (1999), Volume Date 1996, 333-376. CODEN: ORRMAM ISSN:0474-4772. CAN 132:107563 AN 1999:782633 CAPLUS

Citations-1

56) Mangalagiu, I.; Tetrahedron 1996, 52, 8853

3. Katritzky, A. [Recent advances in the chemistry of pyridazines](#), Advances in Heterocyclic Chemistry, vol 75, ACADEMIC PRESS, San Diego London Boston New York, Pages: 167-241 2000.

Citations-3

97T441 : Mangalagiu, I.; Tetrahedron,1997, 53 (12), 4411.

96T8853: Mangalagiu, I.; Tetrahedron,1996, 52 (26), 8853.

95ACS778: Mangalagiu, I. , Acta Chim. Scand., 1995, 49(10), 778.

4. Brown, D. J. The pyridazines. Supplement I. Chemistry of Heterocyclic Compounds (Chichester, United Kingdom) (2000), 57 iii-xix, 1-687. CODEN: CHECAV ISSN:0069-3154. CAN 133:135282 AN 2000:336756 CAPLUS

Citations-4

1828) Mangalagiu, I; Acta Chem Scand 1995, 49, 778

1829) Mangalagiu, I; Acta Chem Scand 1997, 51, 927

1879) Mangalagiu, I; Tetrahedron 1996, 52, 8853

1956) Mangalagiu, I; Tetrahedron 1997, 53, 4411

5. Knipe, A. C. *Carbanions and electrophilic aliphatic substitution*. Organic Reaction Mechanisms(2001), 327-360. CODEN: ORRMAM ISSN:0474-4772. CAN 137:216503 AN 2002:450502 CAPLUS

Citations-1

88) Mangalagiu, I; Tetrahedron 1997, 53, 4411

6. Undheim, Kjell. Heteroaromatics via palladium-catalyzed cross-coupling. Handbook of Organopalladium Chemistry for Organic Synthesis (2002), 1 409-492. CODEN: 69DBT6 CAN 138:271453 AN 2002:692891 CAPLUS

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121) Mangalagiu, I; Acta Chem Scand 1996, 50, 914

138) Mangalagiu, I; Tetrahedron Lett 1996, 37, 1309

139) Lu, Q., Mangalagiu, I; Acta Chem Scand 1997, 51, 302

7. Groziak, Michael P. Six-membered ring systems: diazines and benzoderivatives. Progress in Heterocyclic Chemistry (2003), 15 306-338. CODEN: PRHCEP ISSN:0959-6380. CAN 141:207083 AN 2003:914855 CAPLUS

Citations -1

1. Mangalagiu, Ionel I.; Caprosu, Maria C.; Mangalagiu, Geanina C.; Zbancioc, Gheorghita N.; Petrovanu, Magda Ghe. ARKIVOC (Gainesville, FL, United States) (2002), (2), 73-79. CODEN: AGFUAR CAN 138:338077 AN 2002:715264 CAPLUS

8. Knipe, A. C. *Carbanions and electrophilic aliphatic substitution*. Organic Reaction Mechanisms(2004), Volume Date 2000, 307-349. CODEN: ORRMAM ISSN:0474-4772. CAN 142:218761 AN 2005:50646 CAPLUS

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1. Dima, St.; Mangalagiu, I.; Caprosu, Maria; Humelnicu, I.; Roman, Mihaela; Petrovanu, Magda. *Analele Stiintifice ale Universitatii "Al. I. Cuza" din Iasi, Chimie* (1999), 7(1), 131-136. CODEN: ASUCFZ ISSN:1221-5341. CAN 132:180219 AN 2000:28742 CAPLUS

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1. Lu, Qingbo; Mangalagiu, Ionel; Benneche, Tore; Undheim, Kjell. *Acta Chemica Scandinavica* (1997), 51(3), 302-306. CODEN: ACHSE7 ISSN:0904-213X. CAN 126:264076 AN 1997:201830 CAPLUS

2. Mangalagiu, Ionel; Benneche, Tore; Undheim, Kjell. *Acta Chemica Scandinavica* (1996), 50(10), 914-917. CODEN: ACHSE7 ISSN:0904-213X. CAN 126:47173 AN 1996:678162 CAPLUS

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1. Mangalagiu, I.; Benneche, T.; Undheim, K. *Tetrahedron Lett.*, 37(8), 1309-1312, 1996.

11. Dennis, N. *Addition reactions: cycloaddition*. *Organic Reaction Mechanisms* (2004), Volume Date 1996, 333-376. CODEN: ORRMAM ISSN:0474-4772. CAN 132:107563 AN 1999:782633 CAPLUS

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1. Caprosu, M.; Roman, M.; Mangalagiu, I.; Petrovanu, M., *An. Stiint. Univ. 'Al.I.Cuza' Iasi*, 7(s2c), 327-334, 1999. CAN 133:222225 AN 2000:496022

2. Caprosu, M.; Mangalagiu, I.; Olariu, I.; Petrovanu, M.: *An. Stiint. Univ. 'Al.I.Cuza' Iasi*, 7(s2c), 321-326, 1999. CAN 133:207493 AN 2000:496021 CAPLUS

12. Knipe, A. C. *Carbanions and electrophilic aliphatic substitution*. *Organic Reaction Mechanisms* (2005), Volume Date 2001, 291-328. Publisher: John Wiley & Sons Ltd., CODEN: ORRMAM ISSN: 0474-4772. Journal; General Review written in English. CAN 144:212247 AN 2005:810237 CAPLUS (Copyright (C) 2006 ACS on SciFinder (R))

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1. Mangalagiu, G.; Mangalagiu, I.; Olariu, R.; Petrovanu, M., *An. Stiint. Univ. 'Al.I.Cuza' Iasi*, 8(s1c), 151-154, 2000. CAN 134:207459 AN 2000:904308 CAPLUS

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