

CURRICULUM VITAE



Prof. dr. IONEL MANGALAGIU

Universitatea "Alexandru Ioan Cuza" din IASI

Facultatea de CHIMIE

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Web site additional: <http://a302.chem.uaic.ro/>

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ORCID ID: [0000-0002-4632-5076](https://orcid.org/0000-0002-4632-5076)

Researcher ID (Web of Science): H-2421-2017

Născut: **1964, iulie, 06**, comuna CIORTEȘTI, județul IAȘI.

Necăsătorit, un copil: Ioan, 10.09.1996

• **Studii :**

- 1970-1978: Școala primară și gimnaziul, Școala Generală Ciortești, Iași;
- 1978-1982: Liceului Sanitar Iași, absolvit în anul 1982 ;
- 1983-1985: Efectuat stagiul militar;
- 1985-1990: Facultatea de Tehnologie Chimică, Secția Chimie- Fizică , Institutul Politehnic Iași, promoția 1990, licențiat în Chimie și Fizică.

• **Doctorat :**

Doctor în Chimie, 1996. Titlul tezei de doctorat:

"NOI COMPUȘI ILIDICI ÎN SERIA 1,2-DIAZINELOR"

sub conducerea **prof. dr. doc. MAGDA PETROVANU**

Teza este publicată integral în lucrări științifice.

• **Grade și funcții didactice**

- **2002: Conducător de doctorat**, Specialitatea – Chimie (Ordinul MEC 3573/19.04.2002);
- **2001: Professor**, Catedra de Chimie Organică, Facultatea de Chimie, Universitatea "Alexandru Ioan Cuza" din Iași;
- **1997: Conferențiar**, aceiași catedră;
- **1995: Lector**, aceiași catedră;
- **1990: Asistent**, aceiași catedră.
- **2006-2012; 2016-prezent: membru C.N.A.T.D.C.U.-** Comisia Chimie;
- **2012-2016: presedinte Comisia de contestatii C.N.A.T.D.C.U.-** Comisia Chimie;
- **2007- 2011, 2017-prezent: membru CNCS, Comisia 1: Matematica si Siinte Exacte;**
- **2004-2008 : șef catedră**, Catedra de chimie organică și biochimie;
- **2000-2004: prodecan**, Facultatea de Chimie;
- **2012-2016: decan**, Facultatea de Chimie;
- **2016-prezent: prorector cu activitatea de cercetare**, Universitatea " Alexandru Ioan Cuza" Iași;
- membru în Consiliul Facultății de Chimie, 2000-2008, 2012 - prezent;
- membru în Senatul Universității " Alexandru Ioan Cuza" Iași, în perioada 2006-2008, 2012- prezent;
- membru în Consiliul de Administratie al Universității „ Alexandru Ioan Cuza”, perioada

2012 - prezent;

- **2002 - prezent : coordonator Erasmus - Socrates** pentru relațiile cu Universitățile din Braunschweig (Technische Universität Braunschweig), Osnabruck (Universität Osnabruck), Konstanz (University of Konstanz, Institut für Chemie, Germany), Anger (Université D'Angers, France) și Cagliari (Università degli Studi di Cagliari, Italy);

▪ **Conferințe invitate la universități de prestigiu din străinătate:**

- ✓ “New achievements in medicinal chemistry of five and six member ring nitrogen heterocycles”, Université Paris Sud, Paris, France, July 12-th **2018**.
- ✓ “New Achievements in the Five and Six Member Ring Azaheterocycles: Chemistry and Applications”, Technische Universität Braunschweig, Germany, August 31-st, **2017**.
- ✓ “Five and Six Member Ring Azaheterocycles as Intelligent Building Blocks for Multiple Tasks”, University of Florence, Italy, June 20, **2016**.
- ✓ " Azaheterocycles: chemistry and applications", Institutul de Chimie al Academiei de Științe al Moldovei, Chisinau, October 16-th, **2016**.
- ✓ “Nitrogen Heterocycles: Old Stories, new Approaches and Perspectives”, University of Konstanz, Konstanz, October 16-th, **2014**.
- ✓ ‘Coronands and Azaheterocycles: New Approches’, Technische Universität Braunschweig, Germany, June 27, **2008**.
- ✓ ‘Nanomaterials with Azaheterocycles Skeleton’, Université D'Angers, France, July 10-th, **2008**.
- ✓ ‘Coronands’, Technische Universität Braunschweig, Germany, July 18-th, **2007**.
- ✓ ‘Microwave Assisted Reactions in Organic Synthesis’, Technische Universität Braunschweig, Germany, August 27-th, **2005**.

• **Specializări în străinătate, burse, distincții, etc. - -(selectii)- -**

- ✓ **Iulie- August 2008, Visiting Professor:** Technische Universität Braunschweig și University of Konstanz, Institut für Chemie, Germany; domeniul: ‘Chimie Supramoleculară’ și respectiv “Compuși fluorescenți prin metode neconventionale”; activitatea de cercetare s-a desfășurat în laboratoarele **Prof. Wolf DuMont** și respectiv **Prof. Ulrich Groth**;
- ✓ **Iulie- August 2007, Visiting Professor:** Technische Universität Braunschweig și University of Konstanz, Institut für Chemie, Germany; domeniul: ‘Chimie Supramoleculară’ și respectiv “Compuși fluorescenți prin metode neconventionale”; activitatea de cercetare s-a desfășurat în laboratoarele **Prof. Mathias Tham** și respectiv **Prof. Ulrich Groth**;
- ✓ **Iulie- August 2006, Visiting Professor:** University of Konstanz, Institut für Chemie, Germany ; domeniul: ‘Sinteza de polipeptide în fază solidă’; activitatea de cercetare s-a desfășurat în laboratoarele **Prof. Michael Przybylski**;
- ✓ **Iulie- August, 2005. Visiting Professor:** University of Konstanz, Institut für Chemie, Germany ; domeniul: ‘Sinteza de polipeptide în fază solidă’; activitatea de cercetare s-a desfășurat în laboratoarele **Prof. Michael Przybylski**;
- ✓ **Iunie - Septembrie 2003, DAAD –NATO Fellowship: Visiting Professor,** Ludwig Maximilian University München, Institut für Organische Chemie; domeniul: ‘Prepararea de compuși organomagnezieni și aplicațiile lor în sinteza organică’; activitatea de cercetare s-a desfășurat în laboratoarele **Prof. Paul Knochel** ;
- ✓ **August- Septembrie 1998, NATO Fellowship: Studii Postdoctorale: NATO Advanced Study Institute in Management of Research&Development&Inovation in Chemistry,** Budapest, Hungary;
- ✓ **Septembrie 1994- Mai 1995,** bursă (concurs, finanțator Consiliul Europei). Specializare în domeniul "Aplicații ale compușilor organo-metalici în chimia heterociclicilor" la Universitatea Oslo, Norvegia, sub îndrumarea **prof. dr. Kjell Undheim**;

- **Decembrie 19, 2011. Medalia “Costin D. Nenitescu”,** pentru merite deosebite in chimie. **Societatea Romana de Chimie;**
- **Mai 12-14, 2011. “ Diploma de Excelenta”,** **Universitatea Tehnica din Moldova,** pentru “Research in the field of Azaheterocycles”. **Euroinvent 2011,** Iasi, Romania;
- **Octombrie 26, 2006. Premiul Universitatii Al.I.Cuza Iasi** pentru “**Rezultate deosebite in activitatea de cercetare**”;

- **Mai 16-18, 2015. “Medalie de aur”.** Inventia premiata: “11,12-Bis-p-tolyl-piridazonil-drim-5(6),8(9)-diene-7-one with antifungal and antibacterial properties.”, **Euroinvent 2015,** Iasi, Romania;

- **Noiembrie 8-10, 2012. “Medalie de aur”.** Inventia premiata: ”Procedeu de obtinere a unor nanodispersii uleioase de argint injectabile”, **37-th International Invention Show,** Sibenik, Croatia;

- **Iunie 04-06, 2009. “Diploma de Excelenta si Medalia de Aur”.** Inventia premiata: “Steroidal Glycosides: Biological Active Compounds of Vegetal Origin”. **Inventica 2009,** Iasi, Romania;

- **Iunie- Iulie, 2008.** Misiune de predare Erasmus/Socrates la universitatile: Universite D’Angers (Franta, 13-25 iulie) si University of Konstanz, Institut fur Chemie (Germania, 30 iunie- 13 iulie);

- **Iulie- August, 2007.** Misiune de predare Erasmus/Socrates la universitatile: TU Braunschweig (Germania, 13-19 iulie) si University of Konstanz, Institut fur Chemie (Germania, 20 iulie- 5 august).

- **Apartenenta la organizatii stiintifice internationale si nationale**

- din anul **2000:** membru al “**Societății Române de Chimie**”;

- din anul **2017:** membru al “**International Society of Heterocyclic Chemistry**”;

- din anul **2011:** membru al “**American Chemical Society**”;

- din anul **2006:** membru al “**Societății Române de Biomateriale**”;

- din anul **2004:** membru al “**Forumului Inventatorilor Romani**”;

- intre anii **2002-2004:** membru in “**Comisia Nationala de Chimie pentru curriculum**

in invatamintul preuniversitar”;

- intre anii **1998-2003:** membru in “**Comisie Nationala de examinare si pregatire a**

Lotului Olimpic Roman de Chimie”.

- **Alte realizari:**

- **Expert/referent** pentru urmatoarele tipuri de programe:

- program FP7 al Uniunii Europene (din anul 2008) si Orizont 2020 (din 2015). Cod: EX2002B025670;

- program INTAS al Uniunii Europene, din anul 2000;

- expert CNCISIS, PNCDI, CEEX , pentru Guvernul Romaniei;

- **Membru in colectivul redactional** al urmatoarelor reviste :

- *Current Medicinal Chemistry*, Bentham Science, UK;

- *Molecules (Organic Chemistry Section)*, MDPI, Switzerland;

- *Mini-Reviews in Organic Chemistry*, Bentham Science, UK;

- *Current Microwave Chemistry*, Bentham Science, UK;

- *Acta Chimica Iasi* (former *Analele Stiintifice ale Universitatii “Al.I.Cuza” Iasi*), Ed. Univ. “Al.I.Cuza” Iasi, Iasi, Romania;

- *The Bulletin of the Polytechnic Institute from Iasi, Chemistry and Chemical Engineering Section*, Ed. Univ. Tehn. “Ghe. Asachi” Iasi, Iasi, Romania;

- *New Frontiers in Chemistry*, Ed. Univ. de Vest Timisoara, Timisoara, Romania;

- *Journal of the European Society of Mathematical Chemistry*, European Society of Mathematical Chemistry, <http://chem.ubbcluj.ro/jesmc/>;
- *Studia Universitatis Moldaviae*, Ed. Universitatii de Stat din Moldova, ISSN 1814-3237 ISSN online 1857-498X <http://studiamsu.eu/stiinte-ale-naturii/>
- **Guest Editor:** Special Issue " Microwave Assisted Reactions: A Modern Useful Tool in Medicinal Chemistry" (2019), *Molecules*, MDPI;

- **Referent stiintific** pentru urmatoarele reviste:

- European Journal of Medicinal Chemistry, Elsevier, Netherlands;
 - Ultrasonics Sonochem, Elsevier, Netherlands;
 - Comptes Rendus Chimie, Elsevier, Netherlands;
 - Bioorganic & Medicinal Chemistry, Elsevier, Netherlands;
 - Bioorganic & Medicinal Chemistry Letters, Elsevier, Netherlands;
 - Tuberculosis, Elsevier, Netherlands;
 - Arabian Journal of Chemistry, Elsevier, Netherlands;
 - Inorganica Chimica Acta, Elsevier, Netherlands;
 - Future Medicinal Chemistry, Future Sci, UK
 - ChemMedChem, RSC, UK;

 - Journal of Heterocyclic Chemistry, Ed. Wiley, New York, USA;
 - Journal of Physical Chemistry, ACS, USA;
 - Heteroatom, Ed. Wiley, New York, USA;
 - Plos One, USA;
 - Arkivok, Arkat Gainesville, FL, USA;
 - Polycyclic Aromatic Compounds, Taylor&Francis, US

 - Monatshefte für Chemie, Ed. Springer, Germany;
 - Medicinal Chemistry Research, Ed. Springer, Germany;
 - Research on Chemical Intermediates, Springer, Germany;
 - Central European Journal of Chemistry, Ed. Springer, Germany;

 - Current Organic Chemistry, Ed. Bentham Science, UK;
 - Current Medicinal Chemistry, Bentham Science, UK;
 - Current Microwave Chemistry, Ed. Bentham Science, UK;
 - Letters in Drug Design and Discovery, Bentham Science, UK;
 - Journal of Chemistry, Hindawi Publishing Corporation, Egypt/USA

 - Molecules, MDPI, Switzerland;
 - Metabolites, MDPI, Switzerland;
 - Amino Acids, MDPI, Switzerland;
 - Molbank, MDPI, Switzerland;
 - International Journal of Molecular Sciences, MDPI, Switzerland;

 - Revue Roumaine de Chimie, Ed. Academiei, Bucuresti, Romania;
 - Roum. Biotech. Lett., Ed. Universitatii Bucuresti, Romania;
 - Analele Stiintifice ale Universitatii "Al.I. Cuza" Iasi, Ed. Univ. Iasi, Iasi, Romania.
 - New Frontiers in Chemistry, Ed. Univ. de Vest Timisoara, Timisoara, Romania;
 - Studia UBB Cluj, Cluj, Romania.
- **Organizare de conferinte, simpozioane, saloane:**
 - **4-th European Chemistry Congress**, 11-13 Mai, 2017, Barcelona, Spain
 - **International Conference on Criminal Investigation**, 23-24 Mai 2013, Bucuresti, Romania;
 - **Euroinvent 2012, 10-12 Mai 2012**, Iasi, Romania;
 - **Zilele Universitatii "Al.I. Cuza" Iasi 2012**, 25 - 26 octombrie 2012, Iasi, Romania;
 - **Zilele Universitatii "Al.I. Cuza" Iasi 2013**, 25 - 26 octombrie 2012, Iasi, Romania;

Limbi străine cunoscute:

Engleza : foarte bine;
 Franceza : satisfăcător;
 Germana : incepator.

- **Activitate didactica si de cercetare**

- **Activitate didactica :**

- **Cursuri predate:**

1. "Relații între structura substanțelor și activitatea lor biologică", anii III și IV, secția Biochimie Tehnologică;
2. "Chimia compușilor naturali", anul IV secția Chimie, anul IV secția Biochimie Tehnologică;
3. "Istoria chimiei", anii III, secția Chimie și Chimie-Fizică și Biochimie Tehnologică;
4. "Bazele chimiei organice", trunchi comun anul I (sistem Bologna) și secția Chimie anul II;
5. "Alcaloizi", anul IV secția Chimie, care a înlocuit cursul de Chimia Compușilor Naturali, de la aceeași secție;
6. "Compuși organici amfionici", Master, anul I;
7. "Compuși heterocicli biologic activi", Master, anul I;
8. "Designul medicamentelor", Master, anul II;
9. "Chimie judiciară", Master, anii I și II (la Facultatea de Drept și la Academia de Politie);
10. "Utilizarea microundelor și ultrasunetelor în chimie", Școala Doctorală.

La aceste discipline conduc sau am condus și lucrările de laborator și seminar aferente. Pentru cursurile 1, 6, 7 și 8-10 am introdus pentru prima dată lucrări de laborator și am constituit laboratoarele aferente.

- **Total cărți și cursuri: 12**

Cărți publicate în edituri din străinătate: 1

Cărți și manuale pe plan central: 10

Cursuri litografiate: 1

- **Activitate de cercetare**

- Domeniul de cercetare științifică este

Chimia Heterociclorilor

cu următoarele subdomenii de expertiză:

1. **Chimia și sănătatea: chimia heterociclorilor cu azot și chimie medicinală;**
2. **Chimia și nanotehnologia: macrocicli cu azot și oxigen, device-uri moleculare, chimie supramoleculară;**
3. **Chimia și mediul: reacții ecologice prietenoase sub acțiunea microundelor și ultrasunetelor.**

În cadrul acestor subdomenii sunt vizate următoarele aspecte:

1. Chimia și sănătatea: cercetările întreprinse vizează deschiderea unor direcții noi de cercetare în chimia heterociclorilor cu azot și a azot-ilidelor. Principalele rezultate așteptate pot fi rezumate astfel: sinteza de compuși tinerți biologic activi [potențiale medicamente (antineoplazice, anti-HIV, antituberculoase, antimicrobiene) și factori de creștere în agricultură], noi nanomateriale și nanobiomateriale cu schelet heterociclic, oligo- și poli- peptide (inclusiv pentru tratarea maladiei Alzheimer), etc.;

2. Chimia și nanotehnologia: în acest subdomeniu cercetările noastre sunt orientate spre sinteza de azacriptanzi și coronanzi, noi materiale cu fluorescență înaltă, device-uri moleculare (cu precădere „logic gates”), chemosenzori;

3. Chimia și mediul: sunt vizate reacțiile sub acțiunea microundelor și ultrasunetelor, care se încadrează în categoria așa ziselor reacții „ecologice prietenoase”, care reduc poluarea

mediului. Relativ la aceste ultime aspecte, de depoluare a mediului, se incadreaza si preocuparile noastre in domeniul chimiei chemosenzorilor.

Cuvinte cheie: heterocicli, diazine, ilide, coronanzi, azacriptanzi, microunde, ultrasunete, cicloaditii, anticancer, antituberculoase, antimicrobiene, factori de crestere, nanobiomateriale, materiale fluorescente, semiconductori, cristale lichide, device-uri moleculare, chemosenzori, chimie “ecologic prietenoasa”.

Rezultatele semnificative obtinute in domeniu:

- **Constituirea unei echipe de cercetare**

Echipe de cercetare: 4 cercetatori postdoctoranzi, 6 doctoranzi in stagiu, 12 studenti la master si in ani terminali;

- sub indrumarea stiintifica a subsemnatului **s-au finalizat 13 teze de doctorat:**

Moldoveanu C. (iulie 2007), titlul tezei: “1,3–Diaziniu ilide și derivați”;

Zbancioc Ghe. (iulie 2007), titlul tezei: “Studiul unor 1,2- diazinii ilide și derivați prin metode convenționale și neconvenționale (cu ajutorul microundelor)”;

Butnariu R. (iunie 2008), titlul tezei: „Obținerea de compuși 1,2- diazinici cu potențiale aplicații practice prin metode convenționale și neconvenționale” ;

Balan A.M. (mai 2009), titlul tezei: „Designul, sinteza și analiza structurală a unor intermediari și coronanzi cu brațe alifatic”;

Florea. O. (octombrie 2009), titlul tezei: “Designul, sinteza si analiza structurala a unor noi coronanzi si derivati cu brate aromatice”;

Risca M. (decembrie 2009), titlul tezei: “Studiul efectelor biochimice și reglatoare ale unor compuși cu schelet azaheterociclic”;

Bejan V. (februarie 2010), titlul tezei: “Azaheterocicli analogi ai steroidelor naturale obținuți prin metode convenționale și neconvenționale”;

Mantu D. (noiembrie 2010), titlul tezei: „Azaheterocicluri 1,2-diazinice. Sintează, structură, reactivitate, utilizări” ;

Astefanei D. (decembrie 2013), titlul tezei: “Studiul prin spectroscopie în infraroșu, Raman și SERS a unor derivați de imidazol”;

Maftעי D. (septembrie 2014), titlul tezei:” Cercetări teoretice si experimentale cu privire la fluorescenta unor azaheterocicli”;

Cristina Al-Matarneh (octombrie 2016), titlul tezei:“Derivati de fenantrolina cu potentiale aplicatii practice ”;

Olaru A. (iulie 2018), titlul tezei: “Derivați aza-heterociclici cu potențială activitate biologică și sisteme de eliberare controlată a acestora”;

Tiru L. (septembrie 2018), titlul tezei: “Sinteza și proprietățile biologice ale unor noi derivați cu schelet azaheterociclic”.

Sardaru M.(noiembrie 2020), titlul tezei: “Azaheterocicluri de 5 si 6 atomi cu potentiale aplicatii practice”.

- **Stagii postdoctorale in grupul de cercetare:**

Antoci Vasilichia (2012-2013);

Edu Carolina, Moldova (2013);

Chibac Andreea, Romania (2014-2015);

Mantu Dorina, Romania (2014-2015);

Murariu Manuela, Romania (2014-2015);

Zbancioc Ana Maria, Romania (2014-2015).

- **Stagii doctorale in grupul de cercetare:**

Nejjar El Ansari Zineb (Université Abdelmalek Essaadi, Faculté des Sciences de Tétouan) Maroc (2014);

Renata Eftenyeva (Yuriy Fedkovych National University Cernauti, Chemical Dep.,) Ukraina (2015-2016).

- **Intemeierea Centrului de cercetare tip C, cu titlul :**

Grupul de cercetare in domeniul cicloimoniu ilidelor si derivatilor prin metode conventionale si neconventionale

Certificat CNCSIS nr. 20/CC-C din anul 2001. Director: Prof.dr. doc. Magda Petrovanu / Prof. Dr. Ionel Mangalagiu;

- **total lucrari: peste 150, din care :**

- lucrari publicate in reviste cotate ISI (Web of Science- Thomson Reuters) – peste 100 (Bioorg. Med. Chem., Curr. Med. Chem., Eur. J. Med. Chem., Eur. J. Org. Chem., Future Med. Chem, Heterocycles, J. Heterocyclic Chem., J. Phys. Chem., Lett. Drug Des. Discov., Macromolecules, Molecules, Synthesis, Synlett, Tetrahedron, Tetlett., Ultrason. Sonochem., etc.);
- lucrari publicate necotate ISI – peste 50;
- lucrari publicate la congrese si conferinte – peste 200 (in tara si in strainatate) ;

- **lucrari citate, din care:**

Factor Hirsh:

- ISI Thomson: 24 (Sum of Times Cited: over 1500)
- Scopus: 25 (Sum of Times Cited: over 1500)
- Google: 27 (Sum of Times Cited: over 2000)

- **conferinte invitate la universitati de prestigiu din strainatate- 8 ;**

- **conferinte plenare invitate (representative)- 20**

- **invenții - 13;**

- **total granturi cistigate prin competitie ca director de proiect: 15, din care :**

- **Granturi internationale: 3**

- 1 grant FP7- People-2009-IRSES (2009-2011, valoare 194.000 Euro);
- 1 grant NATO (2006-2007, valoare 5000 Euro);
- 1 grant bilateral Romania-Moldova.

- **Granturi nationale: 13**

- 2 granturi PN-II-Idei (valoare 2.500.000 lei, cca 450.000 Euro);
- 2 granturi tip CEEX (in anul 2005, valoare 3.650.000,00 lei, cca 1.000.000,00 Euro) ;
- 1 grant CEEX in 2006 ca responsabil tema (valoare 200.000 lei, cca 70.000 Euro) ;
- 1 grant tip C (in anul 1999, valoare 90.000 \$ USA) ;
- 8 granturi tip A, în anii 1998 (valoare cca. 3.000 Euro), 2003-2005 [2003- valoare cca. 2.000 Euro, 2004- valoare cca. 3.000 Euro, 2005- valoare cca. 5.000 Euro); 2006-2008 [2006- valoare cca. 10.000 Euro, 2007- valoare cca. 10.000 Euro, 2008- valoare cca. 10.000 Euro];
- membru in Comitetul de Management la granturile FP7-COST-Action MP-0901 (2009-2012, valoare 200.000 Euro) si FP7-COST-Action MP-1307 (2014-2018, valoare 500.000 Euro);

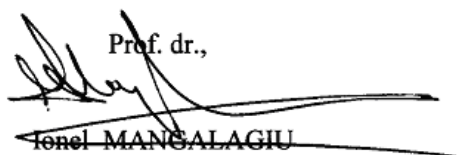
- **cca 20 granturi sau contracte naționale**, ca si colaborator.

- **Cooperare internationala**

Relațiile de cooperare stabilite de catre subsemnatul cu diverse colective din străinătate (cele la care sunt și coordonator Erasmus-Socrates) s-au concretizat după cum urmează:

- stagii de specializare/pregătire în străinătate pentru cadrele didactice tinere și studenți;

- conferințe invitate ale partenerilor la universitatea noastră: Przybylski și Groth (Konstanz), Du Mont și Lindell (Braunschweig), Rosemeyer (Osnabrück), Salle (Angers), Delivanova (Cagliari);
- conferințe invitate ale subsemnatului la universități din străinătate;
- cistigarea unui grant de cercetare NATO, partener Univ. Konstanz, Germany- Prof. Groth;
- cistigarea unui grant de cercetare FP7, parteneri: Univ. Newcastle, UK- prof. Dr. Andrew Benniston; Academia de Științe Chisinau, Moldova- prof.dr. Constantin Turta;
- membru în Comitetul de Management grant COST Action MP0901 și MP-1307.

Prof. dr.,

~~Ionel MANGALAGIU~~

Profesor dr. IONEL MANGALAGIU

Universitatea "Alexandru Ioan Cuza" din Iasi

Facultatea de Chimie

11 Carol I Bd., 700506 Iasi

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LISTA PUBLICATIILOR

ISI WEB OF SCIENCE.

LEGENDA:

No. – Q1 (0-25%); No. – Q2 (26-50%); No – Q3, Q4 (51-100%).

2021

195. Olaru, A.; Rotaru, A.; Cojocaru, C.; **Mangalagiu I.I.**; Danac, R. New 2,9-disubstituted-1,10-phenanthroline derivatives with anticancer activity by selective targeting of telomeric G-quadruplex DNA, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy (Spectrochim. Acta A)*, **249**, 119318 (1-14), **2021**. Publisher PERGAMON-ELSEVIER SCIENCE LTD, THE BOULEVARD, LANGFORD LANE, KIDLINGTON, OXFORD OX5 1GB, ENGLAND, ISSN: 1386-1425
<https://doi.org/10.1016/j.saa.2020.119318>

2020

195. Sardaru, M.C.; Craciun, A.M.; Al Matarneh, C.-M.; Sandu, I.S.; Amarandi, R.M.; Popovici, L.; Ciobanu, C.I.; Peptanariu, D.; Pinteala, M.; **Mangalagiu, I.I.**; Danac, R. Cytotoxic substituted indolizines as new colchicine site tubulin polymerization inhibitors", *Journal Of Enzyme Inhibition And Medicinal Chemistry (J. Enzym. Inh. Med. Ch.)*, **35(1)**, 1581-1595, **2020**. Publisher: Taylor & Francis, Informa Ltd (Registered in England and Wales Registered Number: 1072954 Registered office: 5 Howick Place, London, SW1P 1WG), ISSN: 1475-6366 (print), 1475-6374 (electronic). DOI: 10.1080/14756366.2020.1801671

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15. *Mangalagiu, I.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

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Papers published „in extenso” in proceedings:

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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.

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Patent RO (Oficiul de Stat pentru Inventii si Marci-OSIM), RO134192-A0/30.06.2020.

International Patent Classification: A61K-031/06; A61K-031/41; C07D-403/14

13. Hagi, B.; Sandu, I.; Lupascu, T.; Vasilache, V.; Tura, V.; **Mangalagiu, I.I.**; Sandu, A. Gonciar, V. **Process for the obtaining of an injection oil silver nanodispersion**

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04-30; MD4106 (C1) 2011-11-30

International Patent Classification: A61K33/38;

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

12. Aricu A., **Mangalagiu I.I.**, Ciocărlan A., Lungu L., Zbancioc Ghe., Vornicu N. **11,12-Bis-p-tolyl-pyridazonil-drim-5(6),8(9)-diene-7-one exhibiting antimicrobial and antifungal activity** (11,12-Bis-p-tolil-piridazonil-drim-5(6),8(9)-dien-7-ona cu proprietăți antifungale și antibacteriene).

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International Patent Classification: [A61K31/122](#)

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

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Patent RO (Oficiul de Stat pentru Inventii si Marci-OSIM), RO127723-B1, 30.03.2016.

International Patent Classification: [A61K9/10](#)

Property Rights Owner: Universitatea Stefan cel Mare Suceava, Romania

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Property Rights Owner: Institutul de Genetica si Fiziologia Plantelor 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. Process for cultivation of grapevine (Procedeu de cultivare a vitei de vie).

Patent MD (Agentia de Stat pentru Proprietate Intelectuala-AGEPI, Rep. Moldova), No. 235/31.07.2010

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

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Patent MD (Agentia de Stat pentru Proprietate Intelectuala-AGEPI, Rep. Moldova), No. 342/31.10.2011

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

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Property Rights Owner: Politechnical Institute of Iasi, Romania

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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
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1. Sandu, I.; Dogaru, V.; Furnică, E.; **Mangalagiu, I.**; Agop, I.(1991): Fabrication of ceramic varistors (Procedeu de obtinere a varistorilor ceramici).

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Carti

International (in English language, 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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22 librari

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1. G. Drochioiu, R. Gradinaru, M. Risca, **I. I. Mangalagiu**: "Toxicologie"(392 pag.), Ed. Universitatii "Al.I.Cuza" Iasi, 2013, 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

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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

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8. **I. I. Mangalagiu**: "Alcaloizi Morfinici si Analogi de sinteza" (170 pagini), Ed. Dosoftei, 2000, Iasi. ISBN: 973-9135-89-7

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Cursuri:

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.

GRANTURI

- 14 granturi ca director;
- 11 Granturi ca si colaborator.

- granturi international ca director- 3

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

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

[http://www.2020-horizon.com/PCAP-Photocatalytic-Cluster-Complexes-for-Artificial-Photosynthesis-Applications\(PCAP\)-s6829.html](http://www.2020-horizon.com/PCAP-Photocatalytic-Cluster-Complexes-for-Artificial-Photosynthesis-Applications(PCAP)-s6829.html)

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)**

http://www.cost.eu/COST_Actions/mpns/Actions/novel_materials_for_nanodevices

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**

http://www.cost.eu/COST_Actions/cmst/Actions/CM1307

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: 300.000,00 Euro.

- granturi nationale director- 13

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

Type of grant: CNFIS-FDI, grant no. CNFIS-FDI-2019-0129

Finance from: **MEC- CNCSIS**

Duration: 2019

Title: Excelency research in Romania in the fird of antimicrobial compounds (**Acronym: CED-Antim**)

Value : **78.000,00 €** (352.000,00 lei)

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

Type of grant: CNFIS-FDI, grant no. CNFIS-FDI-2018-0102

Finance from: **MEC- CNCSIS**

Duration: 2018

Title: Excelency research in Romania in the CERNESIM research unit (**Acronym: CER-CE**)

Value : 70.000,00 € (306.600,00 lei)

13. 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: 2012-2016

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

Value : 350.000,00 €

12. 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**

Value : 105.000,00 €

11. 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)**

10. 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**

9. 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**

6-8. 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 €

3-5. 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 €

2. 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%)

1. 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

POSDRU

1. POSDRU 161/2.1/G/141661: Facilitarea inserției pe piața muncii a absolvenților de chimie “,

Value: 2,166,413.76 lei

Duration: 2014-2015

Function: long term expert

2. POSDRU 159/1.5/S/137750: Programe doctorale și postdoctorale - suport pentru creșterea competitivității cercetării în domeniul Științelor exacte

Value: 9,626,463.00 lei

Duration: 2014-2015

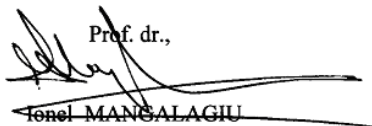
Function: long term expert

3. POSDRU 159/1.5/S/133652: Sistem integrat de îmbunătățire a calității cercetării doctorale și postdoctorale din România și de promovare a rolului științei în societate

Value: 9,767,647.60 lei

Duration: 2014-2015

Function: short term expert

Prof. dr.,

Ionel MANGALAGIU