

Professor dr. IONEL MANGALAGIU

"Alexandru Ioan Cuza" University Iasi

Faculty of Chemistry

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

LIST OF PUBLICATIONS

ISI WEB OF SCIENCE: colour Articles LEGEND:

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

2022

208. Stoleru, V.; Vitanescu, M.; Teliban, G.-C.; Cojocaru, A.; Vlase, L.; Gheldiu, A.-M.; **Mangalagiu, I.I.**; Mantu-Amăriucăi, D.; Burducea, M.; Zheljzkov, V.; Rusu, O.R. Phytosterol and Polyphenol Contents and Quinoa Leave Yields Variation in Relationships to Variety, Density and Harvesting Date. *Agronomy* **2022**, *12*, 2397.

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207. Amariuca-Mantu, D.; Mangalagiu, V.; Bejan, I.; Aricu, A.; **Mangalagiu, I.I.*** Hybrid Azine Derivatives: A useful Approach for Antimicrobial Therapy. *Pharmaceutics* **2022**, *14*, 2026. MDPI, ST ALBAN-ANLAGE 66, CH-4052 BASEL, SWITZERLAND. ISSN:1999-4923

<https://doi.org/10.3390/pharmaceutics14102026>

206. Bucur, S.; Diacon, A.; **Mangalagiu, I.I.**; Mocanu, A.; Rizea, F.; Dinescu, A.; Ghebur, A.; Boscornea, A.C.; Voicu, G.; Rusen, E. Bisphenol A adsorption on silica particles modified with beta-cyclodextrins. *Nanomaterials* **2022**, *12*, 39 (pp 1-16). MDPI, ST ALBAN-ANLAGE 66, CH-4052 BASEL, SWITZERLAND. ISSN 2079-4991.

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205. Diaconu, D.; Antoci, V.; Mangalagiu, V.; Amariuca-Mantu, D.; **Mangalagiu, I.I.*** Quinoline - imidazole/benzimidazole derivatives as dual- / multi- targeting hybrids inhibitors with anticancer and antimicrobial activity. *Scientific Reports (Sci. Rep.)* **2022**, *12*, 16988 (pp 1-15).

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<https://doi.org/10.3390/molecules27196321>

203. Zbancioc, G.; Ciobanu, C.I.; **Mangalagiu, I.I.**; Moldoveanu, C. Ultrasound-Assisted Synthesis of Fluorescent Azatetracyclic Derivatives: An Energy-Efficient Approach. *Molecules* **2022**, *27*, 3180 (pp 1-10). Publisher: Molecular Diversity Preservation International, CODEN: MOLEFW ISSN: 1420-3049. <https://doi.org/10.3390/molecules27103180>

202. Lungu, L.; Cucicova, C.; Blaja, S.; Ciocarlan, A.; Dragalin, I.; Barba, A.; Vornicu, N.; Geana, E.-I.; ***Mangalagiu, I.I.***; Aricu, A. Synthesis of Homodrimane Sesquiterpenoids Bearing 1,3-Benzothiazole Unit and Their Antimicrobial Activity Evaluation. *Molecules* **2022**, *27*, 5082. <https://doi.org/10.3390/molecules27165082>

201. Diaconu, D.; Amariuci-Mantu, D.; Antoci, V.; Ciorceanu, R.; Mangalagiu, V.; ***Mangalagiu, I.I.**** DESIGN AND SYNTHESIS OF NEW HYBRID PYRIDINE-IMIDAZOLIUM/BENZIMIDAZOLIUM SALTS WITH ANTIBACTERIAL ACTIVITY, *Revue Roumaine Chimie (Rev. Roum. Chim.)* **2022**, *67(1-2)*, 85–88. Publisher: Editura Academiei Romane, CODEN: RRCHAX ISSN: 0035-3930. DOI: 10.33224/rch.2022.67.1-2.07

200. Amariuca-Mantu, D.; Antoci, V.; Sardaru, M. C.; Al Matarneh, C. M.; ***Mangalagiu, I.I.***; Danac, R. Fused pyrrolo-pyridines and pyrrolo-(iso)quinoline as anticancer agents. *Physical Sciences Reviews (Phys. Sci. Rev.)* **2022**, *000*, 00 (pp 1-64). Publisher WALTER DE GRUYTER GMBHGENTHNER STRASSE 13, D-10785 BERLIN, GERMANY. ISSN 2365-6581; eISSN 2365-659X. <https://doi.org/10.1515/psr-2021-0030>

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1. C.M. Al Matarneh, R.M. Amarandi, I. Mangalagiu, R. Danac, New Fused (Iso)quinoline Heterocycles as Potential Anticancer Agents, Ahi Evran 2nd International Conference on Scientific Research, Ahi Evran University, October 21-23, 2022 (oral online presentation).

Proceedings Book, ISBN 978-625-8246-37-7, page 807

https://www.ahievrconference.org/files/ugd/614b1f_4f7efa6812344bdd878fd263a914fb77.pdf

2. R. Ciorceanu, C.I. Ciobanu, I.I. Mangalagiu, R. Danac, Synthesis of New Indolizinic Derivatives as Potential Antitumor Agents, 7th International New York Conference on Evolving Trends in Interdisciplinary Research&Practices, Manhattan, New York City, October 1-3, 2022 (oral online presentation)

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4. R. Ciorceanu, R. Danac, V. Antoci, C. Ciobanu, I.I. Mangalagiu, Synthesis of 6, 7 and 8-substituted indolizines as potential anticancer agents, EGE International Congress on Natural & Medical Sciences, Izmir, Turkey, September 02-04, 2022 (oral online presentation).

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5. Antoci, V.; Amăriucăi-Mantu, D.; Diaconu, D.; Dănac, R.; Mangalagiu, V.; Mangalagiu, I.I. Novel benzo[f]quinoline compounds with vinyl chain: synthesis, characterization and anticancer evaluation, INTERNATIONAL SCIENTIFIC RESEARCH CONGRESS-XII, August 13-14, 2022. Delhi, India (on-line, Oral presentation, nr. 656, pag. 656-657).

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6. Ciorceanu, R.; Danac, R.; Ciobanu, C.; Mangalagiu, I.I.; Amăriucăi-Mantu, D. Synthesis of new indolizinic derivatives as potential anticancer agents, INTERNATIONAL SCIENTIFIC RESEARCH CONGRESS-XII, August 13-14, 2022. Delhi, India (on-line, Oral presentation, nr. 665, pag. 665-666).

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7. Mangalagiu, I.I.; Mangalagiu, V.; Amariuca-Mantu, D.; Antoci, V.; Diaconu, D. New Azaheterocycles Derivatives: Design, Synthesis and Applications, MEDCHEMMEET2022- INTERNATIONAL MEET ON MEDICINAL CHEMISTRY, DRUG DISCOVERY & DRUG DELIVERY, June 23-25, 2022. COPENHAGEN, DENMARK. (Invited (plenary) lecture, I-3, pag. 2).

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8. Mangalagiu, V.; Diaconu, D.; Amariuca-Mantu, D.; Antoci, V.; Mangalagiu, I.I. Hybrid Five and Six Membered Ring Nitrogen Heterocycles with Antimicrobial and Anticancer Activity, MEDCHEMMEET2022- INTERNATIONAL MEET ON MEDICINAL CHEMISTRY, DRUG DISCOVERY & DRUG DELIVERY, June 23-25, 2022. COPENHAGEN, DENMARK. (Poster presentation, P4- pag. 3).

MEDCHEMMEET2022, Abstract Book, pag.19

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9. Mangalagiu, V.; Amariuca-Mantu, D.; Antoci, V.; Diaconu, D.; Danac, R.; Moldoveanu, C.; Zbancioc, Ghe.; Mangalagiu, I.I. Ecologically friendly methods used in heterocyclic chemistry, 7th International Conference Ecological and Environmental Chemistry 2022, March 3-4, 2022, Chisinau, Republic of Moldova. (Plenary lecture, PL, pag. 11).

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10. Diaconu, D.; Mangalagiu, V.; Mangalagiu, I.I. New Materials Based on Quinoline Sulfonamide - Metals with Antimicrobial Activity. METAL 2022 - 31st International Conference on Metallurgy and Materials, May 18 - 19, 2022. Brno, Czech Republic. Proceedings 31st International Conference on Metallurgy and Materials. Pages: 739-744.

ISBN: 978-80-88365-06-8 ISSN: 2694-9296 <https://doi.org/10.37904/metal.2022.4495>

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198. Antoci, V.; Oniciuc, L.; Amariuca-Mantu, D.; Moldoveanu, C.; Mangalagiu, V.; Amarandei, A.M.; Lungu, C.N.; Dunca, S.; ***Mangalagiu, I.I.***; Zbancioc, G. Benzoquinoline Derivatives: A Straightforward and Efficient Route to Antibacterial and Antifungal Agents. *Pharmaceuticals* **2021**, **14**, 335 (pp 1-21). MDPI, ST ALBAN-ANLAGE 66, CH-4052 BASEL, SWITZERLAND ISSN: eISSN: 1424-8247. <https://doi.org/10.3390/ph14040335>

197. 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)* **2021**, **249**, 119318 (pp 1-14). 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>

196. Diaconu, D.; Amariuci-Mantu, D.; Mangalagiu, V.; Antoci, V.; Zbancioc, Ghe.; ***Mangalagiu, I.I.**** Ultrasound assisted synthesis of hybrid quinoline-imidazole derivatives: a green synthetic approach. *RSC Advanced (RSC Adv.)* **2021**, **11**, 38297–38301. Publisher Royal Society of Chemistry (United Kingdom), ISSN: 2046-2069, eISSN:2046-2069. <https://doi.org/10.1039/D1RA07484A>

195. Bucur, S.; Niculaua, M.; Ciobanu, C.I.; Lungu, N.C.; ***Mangalagiu, I.I.**** A Simple Synthesis Route for Selectively Methylated β -Cyclodextrin Using a Copper Complex Sandwich Protecting Strategy. *Molecules* **2021**, **26**, 5669 (pp. 1-6). Publisher: Molecular Diversity Preservation International, CODEN: MOLEFW ISSN: 1420-3049. <https://doi.org/10.3390/molecules26185669>

194. Moldoveanu, C.; ***Mangalagiu, I.I.***; Zbancioc, G. Fluorescent Azasteroids through Ultrasound Assisted Cycloaddition Reactions. *Molecules* **2021**, **26**, 5098 (pp 1-13). Publisher: Molecular Diversity Preservation International, CODEN: MOLEFW ISSN: 1420-3049. <https://doi.org/10.3390/molecules26165098>

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Ionel I. Mangalagiu, Dorina Amariuca-Mantu, Vasilichia Antoci, Ramona Danac, Violeta Mangalagiu, Costel Moldoveanu, Gheorghita Zbancioc. Hybrid five- and six-member ring azaheterocycles: synthesis and applications. *Progress in Organic and Macromolecular Compounds 28-th Ed.*, Iasi, Romania, October 7-9, 2021. (Plenary lecture, PL, pag. 25-26).

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Roxana Ciorteanu, Vasilichia Antoci, Dorina Amariuca-Mantu, Catalina Ciobanu, Violeta Mangalagiu, ***Ionel I. Mangalagiu***. New hybrid quaternary salts with sulfanylamine/benzimidazole skeleton. *Progress in Organic and Macromolecular Compounds 28-th Ed.*, Iasi, Romania, October 7-9, 2021. (Poster presentation, pag. 107-108).

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Mangalagiu, I.I. Ultrasound assisted synthesis of azaheterocycles as green modern tool alternative for synthesis. 30th International Conference Ecology & Safety, August 16-19, 2021, Burgas, Bulgaria. (Oral presentation, OP-129, pag. 13).

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Mangalagiu, I.I.; Violeta Mangalagiu, Costel Moldoveanu, Gheorghita Zbancioc, Ramona Danac, Vasilichia Antoci. ANTIMICROBIAL AND ANTICANCER ACTIVITY OF SOME HYBRID AZINE/AZOLE DERIVATIVES, *New frontiers in natural product chemistry*, June 4-5, **2021**, Chişinău, Moldova. (Oral presentation, pag. 14). <http://dx.doi.org/10.19261/nfnpc.2021.ab07>

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Editura: Institute of Chemistry

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 Editura: Institute of Chemistry
 ISBN 978-9975-3336-7-2 (PDF).
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Roxana Ciorteanu, Dumitrelea Diaconu, Vasilichia Antoci, Dorina Amăriucăi-Mantu, Cătălina Ciobanu, Violeta Mangalagiu, ***Mangalagiu, I.I.*** NEW HYBRID QUATERNARY SALTS WITH PYRIDINE/BENZIMIDAZOLE SKELETON, *New frontiers in natural product chemistry*, June 4-5, 2021, Chișinău, Moldova. (Poster presentation, pag. 23). <http://dx.doi.org/10.19261/nfnpc.2021.ab16>

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Roxana-Maria Amărăndi, Maria-Cristina Al-Matarnah, Lacramioara Popovici, ***Mangalagiu, I.I.***, Vasilichia Bejan, Catalina-Ionica Ciobanu, Ramona Danac. PYRROLO-FUSED HETEROCYCLIC DERIVATIVES: DESIGN, SYNTHESIS AND ANTICANCER EVALUATION, *New frontiers in natural product chemistry*, June 4-5, 2021, Chișinău, Moldova. (Poster presentation, pag. 24). <http://dx.doi.org/10.19261/nfnpc.2021.ab17>

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191. Sardaru, M.C.; Craciun, A.M.; Al Matarnah, 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.)* **2020**, **35(1)**, 1581-1595. 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

190. Antoci, V.; Cucu, D.; Zbancioc, Ghe.; Moldoveanu, C.; Mangalagiu, V. Amariuca-Mantu, D.; Aricu, A.; ***Mangalagiu, I.I.**** Bis-(imidazole/benzimidazole)-pyridine derivatives: synthesis, structure and antimycobacterial activity. Part XII, *Future Medicinal Chemistry (Future Med. Chem.)* **2020**, **12(3)**, 207-222. Publisher: FUTURE SCI LTD, UNITED HOUSE, 2 ALBERT PL, LONDON, N3 1QB, ENGLAND, ISSN: 1756-8919, eISSN: 1756-8927. <https://doi.org/10.4155/fmc-2019-0063>

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184. Al Matarneh, C.; Amarandei, R.M.; Caraciu, A.; **Mangalagiu, I.I.**; Zbancioc, Ghe.; Danac, R. Design, Synthesis, Molecular Modelling and Anticancer Activities of New Fused Phenanthrolines, *Molecules* **2020**, **25**, 527 (1-16). IDS Number: 399HO Publisher: Molecular Diversity Preservation International, CODEN: MOLEFW ISSN: 1420-3049 **Chemistry, Multidisciplinary-Q2, 67/152**; <https://doi.org/10.3390/molecules25030527>

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1. Guran, C.; Ciocoiu, I.; Micu, M.; *Mangalagiu, I.I.* **Chromium(III) complex thiocyanates with pyridazone derivatives. II.**, *Scientific Bulletin - Polytechnic Institute of Bucharest, Chemistry and Materials Science*, **54(3-4)**, 49-53, **1992**. Publisher: Bucharest Polytechnic Institute, CODEN: SICSEI ISSN: 1220-305X. Journal written in English. CAN 123:131026 AN 1995:634123 CAPLUS

Patents

Number of patents: 14

14. **Mangalagiu, I.I.**; Amariuca-Mantu, D.; Antoci, V.; Zbancioc, Ghe.; Moldoveanu, C.; Cucu, D.; Danac, R.; Mangalagiu, V. **Obtaining class of anthracene-imidazole compounds with anti-tuberculosis effect by performing N-alkylation imidazole and benzimidazole with 9-chloromethyl-anthracene, and subjecting intermediates to quaternization**

Patent RO (Oficiul de Stat pentru Inventii si Marci-OSIM): RO134192-A0/30.06.2020; RO134192-A3 /30.03.2021

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

Derwent Primary Accession Number: 2020-605892

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**

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

MD4106 (B1)/2011-04-30; 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.**, Ciocârlan 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).

Patent MD (Agentia de Stat pentru Proprietate Intelectuala-AGEPI, Rep. Moldova), No. MD4370 (C1)/ 30.04. 2016

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

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

11. 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 (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

10. Hagi, B.; Sandu, A.; Lupascu, T.; Chirazi, M.; **Mangalagiu, I.I.**; Sandu, I.; Ciobanu, M.; Vasilache, V. **Powder with homeostatic and regenerative capacity** (Pudra avind capacitate homeostatica si regenerativa).

Patent MD (Agentia de Stat pentru Proprietate Intelectuala-AGEPI, Rep. Moldova), No. 4117-C1/30.11.2011.

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

9. Iurea, D. (RO); Chintea, P. (MD); **Mangalagiu, I.I.** (RO); Munteanu, N. (RO); Chirilov, E. (MD); Cotenco, E. (MD); Iurea, R. (RO). **Process for cultivation of Apple Tree** (Procedeu de cultivare a marului).

Patent MD (Agentia de Stat pentru Proprietate Intelectuala-AGEPI, Rep. Moldova), No. 383/31.01.2012

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

8. 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 plants (Procedeu de tratare extraradicalara a plantelor de tomate).

Patent MD (Agentia de Stat pentru Proprietate Intelectuala-AGEPI, Rep. Moldova), No. 271/30.09.2010

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

6. Iurea, D. (RO); Chintea, P. (MD); **Mangalagiu, I.I.** (RO); Munteanu, N. (RO); Istrate, M. (RO); Cotenco, E. (MD); Iurea, R. (RO). Process for treatment of growing sweet pepper plants (Procedeu de tratare a plantelor de ardei gras).

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

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.(19910: 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 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

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

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[title/index.php?katalog=WORLDCAT&url=http%3A%2F%2Fwww.worldcat.org%2Ftitle%2F19-radiochemical-modifications-in-polymers-conclusion-polymer-solids-and-polymer-melts-introduction%2Foclc%2F5661156724%26referer%3Dbrief_results&signature=10-EsD02LkiOExNLG7z1y22Tza9QLinAh5zeyeHCmO0&showCoverImg=1](http://kvk.bibliothek.kit.edu/view-title/index.php?katalog=WORLDCAT&url=http%3A%2F%2Fwww.worldcat.org%2Ftitle%2F19-radiochemical-modifications-in-polymers-conclusion-polymer-solids-and-polymer-melts-introduction%2Foclc%2F5661156724%26referer%3Dbrief_results&signature=10-EsD02LkiOExNLG7z1y22Tza9QLinAh5zeyeHCmO0&showCoverImg=1)

461 de biblioteci

2. A. K. Haghi; G. E. Zaikov (Eds.), In: Modern Concepts in Nanotechnology Research, 2011, 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.**

<http://kvk.bibliothek.kit.edu/view->

[title/index.php?katalog=WORLDCAT&url=http%3A%2F%2Fwww.worldcat.org%2Ftitle%2F19-radiochemical-modifications-in-polymers-conclusion-polymer-solids-and-polymer-melts-introduction%2Foclc%2F5661156724%26referer%3Dbrief_results&signature=10-EsD02LkiOExNLG7z1y22Tza9QLinAh5zeyeHCmO0&showCoverImg=1](http://kvk.bibliothek.kit.edu/view-title/index.php?katalog=WORLDCAT&url=http%3A%2F%2Fwww.worldcat.org%2Ftitle%2F19-radiochemical-modifications-in-polymers-conclusion-polymer-solids-and-polymer-melts-introduction%2Foclc%2F5661156724%26referer%3Dbrief_results&signature=10-EsD02LkiOExNLG7z1y22Tza9QLinAh5zeyeHCmO0&showCoverImg=1)

22 de biblioteci

3. Pradip K. Bhowmik (Ed), In: Current Advances in Chemistry and Biochemistry, 2021, Vol. 3, pages 1-161. Publisher: Book Publisher International, ISBN 978-93-90768-93-6 (Print); ISBN 978-93-90768-91-2 (eBook); DOI: 10.9734/bpi/cacb/v3

Chapter 02- Microwave Assisted Reactions for Synthesis of Bioactive Azaheterocycles, by: R Danac, D Amariuca-Mantu, V Antoci, G Zbancioc, V Mangalagiu, **Ionel I. Mangalagiu***, 2021, Vol. 3, pages 17-50. <https://doi.org/10.9734/bpi/cacb/v3/7477D>

4. Banik, K.B.; Banerjee, B. (Ed), In: Heterocyclic Anticancer Agents, 2022, Berlin, Boston, Publisher: De Gruyter. <https://doi.org/10.1515/9783110735772>

Chapter 6- Fused pyrrolo-pyridines and pyrrolo-(iso)quinoline as anticancer agents, by: D. Amariuca-Mantu, V. Antoci, M. C. Sardaru, C. M. Al Matarneh, **Ionel I. Mangalagiu** and R. Danac, pp. 185-246.

National (in Romanian language):

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, Gheorghită 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, Gheorghită Zbancioc, Roxana Tucaliuc, Ana-Maria Zbancioc, Ondina Boiță, **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 generală"(276 pag.), Ed. Casa Editorială Demiurg, 2002, Iasi. ISBN: 973-8076-12-6
6. G. Drochioiu, **I. I. Mangalagiu**, I.Druta "Elemente de teorie și practică toxicologică"(151 pag.), Ed. Casa Editorială 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 și Analogi de sinteză" (170 pagini), Ed. Dosoitei, 2000, Iasi. ISBN: 973-9135-89-7
9. M. Petrovanu, M. Caprosu, **I. I. Mangalagiu**: "*Istoria Chimiei în România până în 1944*" (128 pagini), Ed. Universității "Al.I.Cuza" Iași, 1997. ISBN: 973-9149-99-5

Curses:

10. **I. I. Mangalagiu**: "*Relații între Structura Substanțelor și Activitatea Lor Biologică*" (180 pagini), Editura Universității "Al.I.Cuza" Iași, 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

6. Grant H2020-IBA-SwafS-Support-2-2020, No101035803 — RI4C2

Title: **Research & Innovation For Cities & Citizens – RI4C2**

Finance from: **European Union**

Director: prof.dr. Ludovic Thily, France, coordinator;

Fonction into the grant: WP leader (WP6), prof.dr. Ionel Mangalagiu, Romania

Duration: 2021-2024 (36 months)

Value: Total: 2.010.000,00 Euro (255.000 Euro, Ro)

5. 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
 Value: Total: 194.400,00 Euro

4. 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:

2. 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.

1. 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.

- **National grants as director- 18**

PN-III-P3-H2020 Awards for Participation to H2020 Research grant (2022-2023, with Romanian Ministry of Research Education);

18. Director: Prof. dr. IONEL MANGALAGIU

Type of grant: PN-III-P3-3.6-H2020-2020-0205, no. 73/01.07.2022

Title: ***Research and innovation for cities and citizens***

Finance from: **MEC**

Duration: 2022-2023

Value: **20.000,00 €**

17. Director: Prof. dr. IONEL MANGALAGIU

Type of grant: 554 PFE-CDI/ 07.12.2021

Title: *Supporting competitiveness in research, development and innovation by developing the institutional capacity of the Alexandru Ioan Cuza University of Iasi (Acronym: UAIC-INOV-IMP2)*

Finance from: MEC

Duration: 2021-2024

Value: **1.200.000,00 €**

16. Director: Prof. dr. IONEL MANGALAGIU

Type of grant: **PN-III-P4-ID-PCE-2020-0371**, Nr. 115/2021

Finance from: MEC- UEFISCDI, Romanian Ministry of Education and Research

Duration: 2021-2023

Title: **Towards the development of next generation of antimicrobials agents with hybrid azaheterocycle skeleton using eco-friendly methods (Acronym: ANTIM-HET-ECO)**

Value: **250.000,00 €**

15. Director: Prof. dr. IONEL MANGALAGIU

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

Finance from: MEC- CNCSIS

Duration: 2019

Title: Excellency research in Romania in the field 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: Excellency 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 Macrocylic 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

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