

Scientific Activity

➤ Published papers

ISI published papers

1. Inge Gazi, G. Bahrim, **R. Dinică**, M. Demeunynck In vitro Antimicrobial Activity Evaluation of New Nitrogen Heterocycles Derivates from Acridine, *Roum. Biotech. Lett.*, 13 (6), **2008**, ISSN 1224 - 5984;
2. Gosav S., **R. Dinica**, M. Praisler, Choosing between GC–FTIR and GC–MS spectra for an efficient intelligent identification of illicit amphetamines, *Journal Of Molecular Structure*, Volume 887, Issues 1-3, 17 September 2008, Pages 269-278, [ELSEVIER SCIENCE SA](#)
3. **R. Dinică**, Furdui B., G. Bahrim, M. Demeunynck, Precurseurs de nouveaux heterocycles d'intéret biologique, *Rev. Roum. Chim.*, 2008, 53(1), ISSN: 0035-3930, [EDITURA ACADEMIEI ROMANE](#)
4. B. Furdui, **R. Dinică**, M. Demeunynck, I. Druță – „Structural investigations of substituted indolizine derivatives by NMR studies”, *Romanian Journal of Physics*, 53,1-2,343-351, **2008**
5. Furdui B., **R. Dinică**, M. Demeunynck, I. Druță Al. Vlahovici, New reactive pyridinium-indolizines fluorophores, *Rev. Roum. Chim.*, **2007**, 52(7),633-637, ISSN: 0035-3930, [EDITURA ACADEMIEI ROMANE](#),
6. **R. Dinica**, Fabio Marchetti , Claudio Pettinari , Brian W. Skelton, Allan H. White Synthesis, spectroscopic and structural characterization of the reaction products of quaternary cationic 2,2'-bipyridylum ligand bromide salts with metal halides, *Inorganica Chimica Acta* 360 (8), pp. 2609-2614, **2007**, ISSN 0020-1693, [www.elsevier.com](#)
7. Furdui B., **R. Dinică**, I. Druță, . Demeunynck, Improved Synthesis of Cationic pyridinium –Substituted Indolizines, *Synthesis*, 16, 2640-2642, **2006**, ISSN: 0039-7881 [GEORG THIEME VERLAG KG](#),
8. **R. Dinică**, F. Charmantray, M. Demeunynck, P. Dumy, “Regioselective Synthesis of Angular Nitrogen Polyheterocycles: dipyrdo[3,2-a:2',3'-c]quinolino[2,3-h]phenazines”, *Tetrahedron Lett.*, **2002**, 43, 7883. ISSN: 0040-4039 [PERGAMON-ELSEVIER SCIENCE LTD](#),
9. **R. Dinică**, C. Pettinari “Synthesis of Substituted, 7,7'-bis-Indolizines via 1,3-Dipolar Cycloaddition under Microwave Irradiation”, *Heterocyclic Comm.*, **2001**,07(4), 381-386 2. ISSN: 0793-0283 [FREUND PUBLISHING HOUSE LTD](#)
10. **R. Dinica**, I. Druta, C. Pettinari, “Total Synthesis of Substituted 7,7'-bis-Indolizines via 1,3-Dipolar Cycloaddition under Microwave Irradiation”, *Synlett*, 1013, 222, July, **2000** ISSN: 0936-5214 [GEORG THIEME VERLAG KG](#)
11. Vlahovici, A, Druta, I, Andrei, M., Cotlet, **Dinica, R.**, “Photophysics of Some Indolizines, Derivatives from Bipyridyl, in Various Media”, *J.Luminisc.*, 82, 155, **1999** ISSN: 0022-2313 [ELSEVIER SCIENCE BV](#)
12. Druta, I., **Dinica, R.M.**, Bacu, E., Humelnicu, I., “Synthesis of 7,7'-bis-Indolizines by the Reaction of 4,4'-Bipyridinium-Ylides with Activated Alchines”, *Tetrahedron*, 10811-10818, **1998** ISSN: 0040-4020 [PERGAMON-ELSEVIER SCIENCE LTD](#),

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13. Furdui, B., G. Bahrim, **R. Dinică**, I. Druță, M. Demeunynck „In vitro antimicrobial activity of new nitrogen heterocycles from 4,4'-bipyridine”, – *Roum. Biotech. Lett.*, 12 (1), 3073-3078, **2007**;
14. Caplanus, I.; Leontie, L.; Druta, I.; Bicu, Elena **R. Dinică**, Rusu I., Rusu G. “On the Electrical and Thermoelectrical Properties of Some 4,4'-Bipyridinium Quaternary Salts”, *Romanian Biotechn Lett.*, **1999**, 4(6), 489-496 CODEN: RBLEFU ISSN: 1224-5984. Journal written in English. CAN 132:316547 AN 2000:194750 CAPLUS (Copyright (C) 2007 ACS on SciFinder (R))
15. Druta I., **R. Dinica**, E. Bacu, M. Andrei, “The Biologic Activity Of New Diquaternary Salts Of Ammonium Derivatives from 4,4'-Bipyridine.”, *Anal. St Univ. “Al.I.Cuza”, Iassy, Tom VI, s. Chimie*, 19, **1998**. CODEN: ASUCFZ ISSN: 1221-5341. Journal written in English. CAN 132:205326 AN 2000:28753 CAPLUS (Copyright (C) 2007 ACS on SciFinder (R))Georgescu,M.
16. **Dinică R.**, Furdui B., Koprivekc D., „Determination de la concentration de tocopherols dans certaines cereales autochtones”, 3-ème Colloque Franco-Roumain de Chimie Appliquée (COFrRoCA),**Bacău**, 22-26 septembre **2004** CAN 143:192777 AN 2004:1043825 CAPLUS (Copyright (C) 2007 ACS on SciFinder (R))
17. **Dinică R.**, B.Furdui, M. Demeunynck, L. Bouffier, Precurseurs de nouveaux heterocycles a intérêt biologique , 3-ème Colloque Franco-Roumain de Chimie Appliquée (COFrRoCA),**Bacău**, 22-26 septembre **2004** CAN 143:266794 AN 2004:1043739 CAPLUS (Copyright (C) 2007 ACS on SciFinder (R))

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18. S. Gosav, M.Praisler, **R. Dinica**, Ghe. Popa, “3D-MORSE descriptors and artificial neural networks – a successful identification method for illicit amphetamines”, *Anal. Univ. “Dunarea de Jos” Galati*, Fascicula II (Mathematics, Physics, Theoretical Mechanics), (2006) 67-71
19. Furdui B., **R. Dinica** and M. Georgescu Physico-chemical study of etheric oils from Artemisia Absinthium,3rd Black Sea Basin Conference on Analytical Chemistry, 12-14 Septembrie 2005, publicata in *Analele Universitatii Ovidius Constanta*, ISSN 1223 7221, vol 16, no 1, 2005, pg. 193-195
20. Georgescu M., **R. Dinica**, B. Furdui, O. Georgescu, „Physico-chemical study of folic acid from some vegetables”– *Ovidius University Annals of Chemistry*,vol. 11, nr 1, 2000
21. Druta I., C. Cuciac, D. Tanase, **R. Dinica**, L. Smau ,“New Monoquaternary Salts Derivative From 4,4'-Bipyridils.” *Anal. St Univ. “Al.I.Cuza”, Iassy, Tom III, s. Chimie*, 118, 1995.
22. Druta I., **R. Dinica**, L. Smau ,“New Diquaternary Salts Derivative From 4,4'-Bipyridils.” *Anal. St. Univ. “Al.I.Cuza”, Iassy, Tom III, s. Chimie*, 124, 1995.

➤ Oral presentations

1. B. Furdui, **R. Dinică**, M. Demeunynck, I. Druță, P. Dumy – „Nouveaux fluorophores indolisiniques d'intereits biologiques”, *Symposium Sygma-Aldrich Jeunes Chimistes SAJEC 2005*, Villeneuve d'Asq – Lille, 17-19 Octombrie, **2005**
2. Furdui,B., **R.Dinică**, Demeunynck M, Druta I., Dumy P, Nouveaux fluorophores indolisiniques d'interêts biologiques, Journee de printemps,

Societe Française de Chimie, section Rhone-Alpes, Université de SAVOIE, Campus du Bourget du Lac, 16 JUIN **2005**

3. B. Furdui, **R. Dinica**, M. Georgescu, "New Nitrogen Heterocyclic Compounds with Biological Interest", – *Symposium Sigma Aldrich Jeunes Chimistes SAJEC 2002, Strasbourg – Obernai*, 21-23 octobre, **2002**, rezumat publicat în vol. Conferinței;

4. B. Furdui, **R. Dinică**, M. Georgescu, "Bypiridinium Ylides as Precursors of New Heterocycles of Biological Interest", , *XXth European Colloquium on Heterocyclic Chemistry, August, 2002, Stockholm, Suedia*, rezumat publicat în vol. de rezumate, pag. 44;

5. **R. Dinică**, F. Charmantray, I. Petre, M. Demeunynck, P. Dumy, "New Acridine Derivatives: Synthesis of Dipyrro-Quinolono-Phenazine Heptacycles", *From Chemistry to Biology, al 7-lea Simpozion al Institutului de Chimia Substanțelor Naturale, I.C.S.N.*, rezumat prezentat în raportul conferinței, p. nr 53, Paris, 30-31 mai, **2002**

6. M. Georgescu, **R. Dinica**, B. Furdui, "New Researches on B₁₂ Vitamin from Black Sea Mud", – *1st Black Sea Basin Conference on Analytical Chemistry*, 10-15 septembrie, Odessa, **2001**;

7. **R. Dinica**, B Furdui, M. Georgescu, "Microwave Assisted bis-indolizine preparation by 1,3-dipolar cycloaddition", , *XIXth European Colloquium on Heterocyclic Chemistry*, July, **2000**, Aveiro, Portugal, p. 87, ISBN 972-789-013-X

8. **Dinica, R.**, Druta, I., Dan, V., Georgescu, M. "Study Of Effect Of Quaternary Salts Of Cycloimonium On Microbian Cells", *37th IUPAC Congress, Frontiers in Chemistry: Molecular Basis of the Life Sciences*, vol.2, p.73, Berlin, 14-19 august **1999**, pag. 74; www.gdch.de.

9. B. Furdui, **R. Dinică**, M. Demeunynck, I. Druță – „Synthesis and photophysics of new reactive pyridinium indolizines fluorophores”, *The International Conference of Physical Chemistry ROMPHYSICHEM-12*, 6-8 septembrie, București, **2006**

10. **Dinica R.**, Cretu R., Furdui B., Florea T., Research on the Antioxidant Effect of Indolisine Derivatives Papers of International Symposium Euro-Aliment 2005, 29-30 September, Galati, **2005**, ISBN 973-8316-87-1;

11. Cretu R., **Dinica R.**, Furdui B., Florea T., Research on the Antioxidant Effect of Indolisine Derivatives in Vegetables Oils, *Al VIII-lea Simpozion de Chimia Coloizilor si Suprafetelor*, 2-4 iunie **2005**, Galati, p190-193, ISBN 973-8316-84-7;

➤ Posters

12. A. Tabacaru, C. di Nicola, C. Pettinari , **R. Dinica**, "Photoluminiscent properties of new organomethallic compounds with cu (I)" *Al IX-lea Simpozion de Chimia Coloizilor si Suprafetelor*, 28-30 iunie **2008**, Galati, ISBN 973-8316-84-7;

13. **Dinica R.**, B. Furdui, I. Druta "Comparative study of acido-basic properties of some quaternary salts of 4,4-bipyridine", *Al IX-lea Simpozion de Chimia Coloizilor si Suprafetelor*, 28-30 iunie **2008**, Galati, ISBN 973-8316-84-7;

14. B. Furdui, **R. Dinica**, M. Demeunynck "Spectrophysical studies of pyridinium-indolisines in biological medium" *Al IX-lea Simpozion de Chimia Coloizilor si Suprafetelor*, 28-30 iunie **2008**, Galati, ISBN 973-8316-84-7;

15. R. Cretu, B. Furdui, **R. Dinica**, "Comparative study of antioxidant properties of some indolisine derivatives in vegetable oils", *Al IX-lea Simpozion de Chimia Coloizilor si Suprafetelor*, 28-30 iunie **2008**, Galati, ISBN 973-8316-84-7

16. M.Georgescu, R. Dinica, B. Furdui, O. Georgescu, Componente organice ca factori de risc din cereale- Simpozionul International "Euro-Aliment 2003", 23-25 octobrie, 2003, Galati, p. 426-428, ISBN 973-8316-68-5;
17. M. Georgescu, R. Dinica, B. Furdui, Separarea, identificarea și unor componente organice biologic active din cereale,– Simpozionul *International "Euro-Aliment 2003"*, 23-25 octombrie, **2003**, Galati, p. 623-625, ISBN 973-8316-68-5;
18. B. Furdui, **R. Dinica**, M. Georgescu, „Studies of Some Pigments and Quinonic Compounds From Aloe Vulgaris”, – 3rd International Conference of the Chemical Societies of South-Eastern European Countries on Chemistry in the New Millenium-an Endless Frontier, Bucarest, Roumanie, 22-25 septembrie **2002**, rezumat publicat în vol. Conferinței, pag. 294, ISBN 973-569-555-3;
19. **R. Dinica**, B. Furdui, M. Georgescu, izolarea și caracterizarea unor compuși organici din aloe,– Alimentele și sănătatea la începutul mileniului III, Ed. Academica, Galati, **2001**, p. 595-698, ISBN 973-8316-15-4
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23. Georgescu, M. **Dinica, R.** “Compuși heterociclici din clasa cromanului cu efect antioxidant”– Sesiunea Științifică Jubiliară – 50 Ani la Universitatea “Dunarea de Jos” Galati, 23 – 24 oct. **1998** ;
24. Druță, I.,**Dinică, R.**,Băcu E.,Reacții de cicloadiție dintre dipiridiniu ilide și compuși acetilenici, Sesiunea științifică jubiliară cu participare internațională, Iași, 21-23 octombrie **1994**
- Druță, I., Smău, L., **Dinică, R.**, Reacția 2-(p-nitrofenil)-4-(-carboxietil)-5-oxazolinonei cu alcooli și amine, Sesiunea științifică jubiliară cu participare internațională, Iași, 21-23 octombrie **1994**