

Lista lucrari- Published papers

Lista lucrari reprezentative (atasate in format electronic)- representative articles:

10. An enhanced colorimetric chemosensor for the detection of various nitro-explosives
P. Ionita
Tetrahedron Let., 2012, 53, 7143-7146
9. Reversible aggregation between nanoparticles induced by acid-base interactions
G. Ionita, C. Ghica, I. Turcu, P. Ionita
Chem. Phys. Let., 2012, 546, 133-135
8. Dual behavior of gold nanoparticles, as generators and scavengers for free radicals
P. Ionita, F. Spafiu, C. Ghica
J. Mat. Sci., 2008, 43, 6571-6574
7. Synthesis and electron paramagnetic resonance study of a nitroxide free radical covalently bonded on aminopropyl-silica gel
M. Tudose, T. Constantinescu, A. T. Balaban, P. Ionita
App. Surface Sci., 2008, 254, 1904-1908
6. Paramagnetic silica-coated gold nanoparticles
C. Ghica, P. Ionita
J. Mat. Sci., 2007, 42, 10058-10064
5. Synthesis and characterization of some novel homo- and hetero-diradicals of hydrazyl and nitroxide type
P. Ionita, F. Tuna, M. Andruh, T. Constantinescu, A. T. Balaban
Aust. J. Chem., 2007, 60, 173-179
4. Hydrazyl-nitrones, novel hybrid molecules in free radical research
P. Ionita
Free Radic. Res., 2006, 40, 59-65
3. Generation of oxygen-, sulfur, nitrogen- and phosphorus-centred short-lived radicals *via* one-electron oxidation with stable hydrazyl radicals
P. Ionita, B. C. Gilbert, A. C. Whitwood
Lett. Org. Chem., 2004, 1, 70-4
2. EPR study of a place exchange reaction on gold nanoparticles: two branches of a disulphide molecule do not adsorb adjacent to each other
P. Ionita, A. Caragheorgheopol, V. Chechik, B. C. Gilbert
J. Am Chem. Soc., 2002, 124, 9048-9
1. Synthesis and characterisation of some novel hetero-diradicals containing linked hydrazyl and nitroxide moieties
P. Ionita, B. C. Gilbert, A. C. Whitwood
Perkin Trans. II, 2001, 1453-62

Teza de doctorat- Ph. D Thesis

Derivati din clasa difenil-picril-hidrazinei, in modelarea proceselor chimice acido-bazice si redox prin transfer interfazic, Universitatea Politehnica Bucuresti, 1997

Articole publicate- Published papers:

80. An enhanced colorimetric chemosensor for the detection of various nitro-explosives
P. Ionita
Tetrahedron Let., 2012, 53, 7143-7146.
79. Reversible aggregation between nanoparticles induced by acid-base interactions
G. Ionita, C. Ghica, I. Turcu, P. Ionita
Chem. Phys. Let., 2012, 546, 133-135.
78. EPR spectra of a mono- and a hetero di-radical in nematic and isotropic phases
G. Ionita, I. Zarafu, A. Paun, P. Ionita
Mol. Cryst. Liq. Cryst., 2012, 562, 141-146.
77. Chemical and biological evaluation of some new antipyrene derivatives with particular properties
C. Remes, A. Paun, I. Zarafu, M. Tudose, M. T. Caproiu, G. Ionita, C. Bleotu, L. Matei, and P. Ionita
Bioorganic Chemistry, 2012, 41-42, 6-12.
76. A QSPR study on several new *N*-alcoxy-dinitroanilines
M. Tudose, F. D. Badea, P. Ionita
Scientific Bulletin B (Politehnica Bucharest), 2011, 73(4), 121-128.
75. Chemically modified (nano)silica as sensitive material for arginine and lysine
M. Tudose, D. Culita, G. Marinescu, C. Ghica, P. Ionita
J. Organomet. Polym., 2011, 21, 492-497.
74. New mono- and di-branched derivatives of *Kryptofix K22* with *N*-4-methoxyamino-3,5-dinitrobenzoyl substituents. Synthesis and properties
M. Tudose, M. T. Caproiu, F. D. Badea, G. Nedelcu, P. Ionita, T. Constantinescu, A. T. Balaban
Arkivoc, 2011, ii, 343-354.
73. *N*-Alcoxy-3,5-dinitro-4-aminobenzoic acid derivatives with controlled physico-chemical properties
M. Tudose, F. D. Badea, G. Ionita, M. Maganu, M. T. Caproiu, P. Ionita, T. Constantinescu, A. T. Balaban
Struct. Chem., 2010, 21, 1227-1234.
72. New *N*-aryloxy-phthalimide derivatives. Synthesis, physico-chemical properties, and QSPR studies
M. Tudose, F. D. Badea, M. T. Caproiu, A. Beteringhe, M. Maganu, P. Ionita, T. Constantinescu, A. T. Balaban
C. Eur. J. Chem., 2010, 8, 789-796.
71. New hydrazyl derivatives with multiple properties
M. Tudose, D. Angelescu, G. Ionita, M. T. Caproiu, P. Ionita
Let. Org. Chem., 2010, 7, 182-185.
70. Wurster aza-crown ethers with *N*-*para*-phenylene-phenothiazine or -phenoxazine groups
A. C. Radutiu, I. Baci, M. T. Caproiu, C. Draghici, A. Beteringhe, G. Ionita, P. Ionita, T. Spataru, N. Spataru, R. D. Baratoiu, T. Constantinescu, A. T. Balaban

Arkivoc, 2009, xiii, 342-362.

69. New alternatives for estimating the octanol/water partition coefficient and water solubility for volatile organic compounds using GLC data (Kovats retention indices)

F. Spafiu, A. Mischie, P. Ionita, A. Beteringhe, T. Constantinescu, A. T. Balaban
Arkivoc, 2009, x, 174-194.

68. Functionalized hybrid nanoparticles and their Interaction with spin-labeled cyclodextrin

G. Ionita, M. Maganu, M. T. Caproiu, P. Ionita
J. Inorg. Organomet. Polym., 2009, 19, 228-233.

67. Reaction of 2,2-diphenyl-1-picrylhydrazyl (DPPH) with two syringylic phenols and one aroxide

E. Hristea, I. Covaci, G. Ionita, P. Ionita, C. Draghici, M. T. Caproiu, M. Hillebrand, T. Constantinescu, A. T. Balaban
Eur. J. Org. Chem., 2009, 5, 626-634.

66. Electron spin resonance study of puff-resolved free radical formation in mainstream cigarette smoke

M. Ghosh, C. Liu, P. Ionita
Arkivoc, 2008, xvii, 318-327.

65. Dual behavior of gold nanoparticles, as generators and scavengers for free radicals

P. Ionita, F. Spafiu, C. Ghica
J. Mat. Sci, 2008, 43, 6571-6574.

64. Synthesis and characterisation of several di-, tri-, and tetra-radicals linked by flexible or rigid linkers

M. T. Caproiu, G. Ionita, C. Draghici, P. Ionita
Arkivoc, 2008, xiv, 158-165.

63. A coloured spin-trap which works as a pH sensor

P. Ionita
S. Afr. J. Chem., 2008, 61, 123-126.

62. Hybrid metal (gold)-inorganic (silica) nanoparticles: synthesis, characterization, and spin-labeling

P. Ionita, C. Ghica, M. T. Caproiu, G. Ionita
J. Inorg. Organomet. Polym., 2008, 18, 414-419.

61. Electron paramagnetic resonance of the free radicals in the gas- and particulate-phases of cigarette smoke using spin-trapping

M. Gosh, P. Ionita, J. McAughey, F. Cunningham
Arkivoc, 2008, xii, 74-84.

60. Hydrazyl-nitrones and hydrazyl-nitroxides, multifunctional molecules as sensors and probes

P. Ionita
Let. Org. Chem., 2008, 5, 42-46.

59. Lateral diffusion of thiol ligands on the surface of Au nanoparticles: an EPR study

P. Ionita, A. Volkov, G. Jeschke, V. Chechik
Analytical Chem., 2008, 80, 95-106.

58. Synthesis and electron paramagnetic resonance study of a nitroxide free radical covalently bonded on aminopropyl-silica gel
M. Tudose, T. Constantinescu, A. T. Balaban, P. Ionita
App. Surface Sci., 2008, 254, 1904-1908.
57. Gold nanoparticles-initiated free radical oxidations and halogen abstractions
P. Ionita, M. Conte, B. C. Gilbert, V. Chechik
Org. Biomol. Chem., 2007, 5, 3504-3509.
56. Ligand dynamics in spin-labeled Au nanoparticles
P. Ionita, J. Wolowska, V. Chechik, A. Caragheorghopol
J. Phys. Chem. C, 2007, 111, 16717-16723
55. Paramagnetic silica-coated gold nanoparticles
C. Ghica, P. Ionita
J. Mat. Sci., 2007, 42, 10058-10064.
54. Probing the cellulose wet-ability by electron paramagnetic resonance
G. Ionita, C. Ghica, P. Ionita
Mat. Sci., 2007, 25, 1011-1017.
53. Synthesis and characterization of some novel homo- and hetero-diradicals of hydrazyl and nitroxide type
P. Ionita, F. Tuna, M. Andruh, T. Constantinescu, A. T. Balaban
Aust. J. Chem., 2007, 60, 173-179.
52. An investigation of oxygen centred radicals in cigarette smoke by electron spin resonance (ESI)
M. Ghosh, F. Cunningham, P. Ionita, J. McAughey
Free Radic. Biol. Medicine, 2006, 41, S64-S65.
51. DeerAnalysis2006 - a comprehensive software package for analyzing pulsed ELDOR data
G. Jeschke, V. Chechik, P. Ionita, A. Godt, H. Zimmermann, J. Bahman, C. R. Timmel, D. Hilger, H. Jung
Applied Mag. Res., 2006, 30, 473-498.
50. Hydrazyl-nitrones, novel hybrid molecules in free radical research
P. Ionita
Free Radic. Res., 2006, 40, 59-65.
49. Mechanistic studies on the free radical decomposition of some oxalic acid arylhydrazides: a source of aryl radicals in aqueous solution
B. C. Gilbert, P. Ionita, J. R. L. Smith, J. Oakes, N. Ouwerkerk
Arkivoc, 2006, iii, 127-147.
48. Synthesis and properties of bis-dinitrophenyl derivatives of 1,7,10,16-tetraoxa-4,13-diazacyclooctadecane (Kryptofix 22)
A. Radutiu, I. Baci, M. T. Caproiu, P. Ionita, I. Covaci, T. Constantinescu.
Rev. Roum. Chim. 2005, 50, 341-347.
47. Synthesis and properties of dinitrobenzamido-TEMPO derivatives
M. Tudose, P. Ionita, F. Dumitrascu, C. Draghici, M. T. Caproiu, I. C. Covaci, T. Constantinescu, M. D. Banciu, A. T. Balaban

Arkivoc, 2005, iv, 225-237.

46. Radical mechanism of a place-exchange reaction of Au nanoparticles

P. Ionita, B. C. Gilbert, V. Chechik

Angew. Chemie Int. Ed., 2005, 44, 3720-3722.

45. Is DPPH free stable radical a good scavenger for oxygen active species?

P. Ionita

Chem. Papers., 2005, 59, 11-16.

44. Dipole-dipole interactions in spin-labeled Au nanoparticles as a measure of interspin distances

P. Ionita, A. Caragheorgheopol, B. C. Gilbert, V. Chechik

J. Phys. Chem. B, 2005, 109, 3734-3742.

43. Mechanistic study of a place exchange reaction of Au nanoparticles with spin-labeled disulfides

P. Ionita, A. Caragheorgheopol, B. C. Gilbert, V. Chechik

Langmuir, 2004, 20, 11536-11544.

42. Spin-labelled Au nanoparticles

V. Chechik, P. Ionita, B. C. Gilbert, A. Caragheorgheopol, H. Caldararu, H. Wellsted, A. Korte

Faraday Discuss., 2004, 125, 279-91.

41. Generation of oxygen-, sulfur, nitrogen- and phosphorus-centred short-lived radicals *via* one-electron oxidation with stable hydrazyl radicals

P. Ionita, B. C. Gilbert, A. C. Whitwood

Lett. Org. Chem., 2004, 1, 70-4.

40. Hydrazyl, nitronyl-, and imino-nitroxides: synthesis, partition properties and reaction with nitric oxides

T. Constantinescu, P. Ionita, I. Chiorescu, G. Ionita

C. Eur. J. Chem., 2003, 1, 465-76.

39. 1,3-Bis(2,4,6- trinitrophenylaminoxy)propane and its 4-cyano-2,6-Dinitrophenyl congener: Synthesis and Properties

I. C. Covaci, P. Ionita, M. T. Caproiu, R. Socoteanu, T. Constantinescu, A. T. Balaban

C. Eur. J. Chem., 2003, 1, 57-68.

38. A new crown compound with multifunctional capabilities

G. Ionita, P. Ionita

J. Inclusion Phen., 2003, 45, 79-82.

37. EPR study of a place exchange reaction on gold nanoparticles: two branches of a disulphide molecule do not adsorb adjacent to each other

P. Ionita, A. Caragheorgheopol, V. Chechik, B. C. Gilbert

J. Am Chem. Soc., 2002, 124, 9048-9.

36. Synthesis and characterisation of some novel hetero-diradicals containing linked hydrazyl and nitroxide moieties

P. Ionita, B. C. Gilbert, A. C. Whitwood

Perkin Trans. II, 2001, 1453-62.

35. New congeners of some betaines whose picramido groups are replaced by 4-cyano-2,6-

dinitrophenyl analogs

I.C. Covaci, T. Constantinescu, M.T. Caproiu, H. Caldararu, P. Ionita, A.T. Balaban
Polish J. Chem., 2001, 75, 1427-40.

34. Influence of cyclodextrins on the kinetics of oxidation of amino acids and bsa by hydrazyl radicals

G. Ionita, V. Em. Sahini, C. Luca, P. Ionita
J. Inclusion Phen., 2001, 39, 269-71.

33. Synthesis of new hydrazyl free radicals. Supramolecular complexes with crown ether and cyclodextrins

P. Ionita, M.T. Caproiu, H. Caldararu, G. Ionita
Rev. Roum. Chim., 2001, 46, 363-9.

32. Direct amination of 2,2-diphenyl-1-picrylhydrazine through a Meisenheimer complex

P. Ionita, M. T. Caproiu, C. Draghici
Rev. Roum. Chim., 2001, 46, 803-6.

31. Synthesis of a new macrocyclic ligand containing two sulphonamide groups and a preliminary study of cation transport by this ligand

O. Popescu, P. Ionita, R. Socoteanu, M.T. Caproiu
Rev. Roum. Chim., 2000, 45, 357-60.

30. The reaction of 2,2-diphenyl-1-picrylhydrazyl free stable radical with sodium borohydride in the presence of 18-C-6

E. Hristea, C. Radutiu, T. Constantinescu, P. Ionita, M.T. Caproiu, M. Hillebrand, A.T. Balaban
Rev. Roum. Chim., 2000, 45, 1089-96.

29. New sulfonyl derivatives of 2,2-diphenyl-1-picrylhydrazyl and their supramolecular complexes with crown ethers or kryptands

P. Ionita, M. T. Caproiu, A. T. Balaban
Rev. Roum. Chim., 2000, 45, 935-41.

28. Authentic versus alternative mechanisms in spin trapping. formation of azide spin-adducts in biphasic and non-aqueous systems by the oxidation of azide anion with a variety of hydrazyl radicals

P. Ionita, B. C. Gilbert, A. C. Whitwood
Perkin Trans. II, 2000, 2436-40.

27. Kinetics of oxidation of amino acids by some free stable hydrazyl radicals

V. Em. Sahini, G. Ionita, G. Semencescu, P. Ionita
Acta Chem. Slovenica, 2000, 47, 111-9.

26. A new nitration process with sodium nitrite in the presence of crown ethers

I. C. Covaci, T. Constantinescu, P. Ionita, C. Luca, A.T. Balaban
Rev. Roum. Chim., 1999, 44, 823-9.

25. Synthesis based on 9-amino-n-picrylcarbazyll

P. Ionita, M. T. Caproiu, A. Meghea, O. Maior, M. Rovinaru, G. Ionita
Polish J. Chem., 1999, 73, 1177-83.

24. Host-guest complexes of some stable free radicals

- P. Ionita
J. Incl. Phen. Molec. Rec., 1999, 34, 253-8.
23. ¹⁵N Regioselectively [¹⁵NO₂]-labelled N-methoxypicramide and DPPH prepared by using a crown ether and solid sodium [¹⁵N]nitrite
M. T. Caproiu, I. C. Covaci, P. Ionita, C. Luca, T. Constantinescu, A. T. Balaban
J. Nuclear Radioanalytical Chem., 1999, 242, 773-6.
22. The reaction between the dpph free radical and potassium cyanide in the presence of crown ether 18-C-6 - a correction.
P. Ionita, T. Constantinescu, C. Luca, H. Caldararu, M. T. Caproiu, F. Dumitrascu, I. Silberg, A. T. Balaban
Rev. Roum. Chim., 1999, 44, 393-6.
21. Nitration of some di- and tri- nitrohalobenzenes with solid sodium nitrite in the presence of 18-C-6
A. Stoica, P. Ionita, M. T. Caproiu, T. Constantinescu, F. Badea
Rev. Roum. Chim., 1999, 44, 351-6.
20. 3,5-Dinitro-4-methoxyaminobenzoic acid and its derivatives
I. Covaci, T. Constantinescu, M. T. Caproiu, C. Draghici, P. Ionita, C. Luca, G. Stanciuc, M. Maganu, A. T. Balaban
Rev. Roum. Chim., 1999, 44, 333-40.
19. The active transport of potassium, arginine, protons and electrons through bulk liquid membranes
C. Luca, P. Ionita, T. Constantinescu
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18. The reaction of DPPH free stable radical with sodium *tetraphenylborate* in presence of 18-C-6 crown ether
P. Ionita, F. Spafiu, T. Constantinescu, H. Caldararu
Rev. Roum. Chim., 1999, 44, 497-500.
17. The preparation and some reaction of 2,2-diphenyl-1-(3,6-dinitro-4-coumarinyl) hydrazyl free radical
P. Ionita, M. Rovinaru, O. Maior
South. Braz. J. Chem., 1998, 6, 59-66.
16. The reaction between DPPH free stable radical and N-bromosuccinimide
P. Ionita
South. Braz. J. Chem., 1998, 6, 101-6.
15. Hydrazyl and aminyl analogs, liquid membranes and stationary phases for gas chromatography
D. O. Popescu, P. Ionita, N. Zarna, I. Covaci, A. Stoica, A. Zarna, D. Nourescu, F. Spafiu, A.T. Balaban, and T. Constantinescu
Roum. Quat. Rew., 1998, 6, 271-82.
14. Normal and reversed phase TLC of some hydrazine derivatives
G. Ionita, T. Constantinescu, P. Ionita
J. Planar Chromatogr. Modern TLC, 1998, 11, 141-4.

13. Selective (^{15}N) nitration of 2,2-diphenyl-1-(2,4- or 2,6-dinitrophenyl)-hydrazines or -hydrazyls
P. Ionita, M. T. Caproiu, C. Luca, T. Constantinescu, H. Caldararu, A. T. Balaban
J. Label. Cpd. Radiopharm., 1998, XLI, 791-9.
12. Supramolecular complexes of l-alanyl-nitroanilide cation with crown ethers, involving tetraphenylborate as anion pair
C. Luca, I. C. Covaci, M. T. Caproiu, P. Ionita, M. Maganu, T. Constantinescu
Rev. Roum. Chim., 1998, 43, 469-72.
11. Gas-chromatographic studies using glass capillary columns with crown-ether type stationary phases. i. Naphtyl azocrown ethers and related compounds: synthesis and properties.
C. Luca, F. Spafiu, M. T. Caproiu, E. Tudor, P. Ionita, T. Constantinescu, M. Danescu, A. Stanciuc
Rev. Roum. Chim., 1998, 43, 287-93.
10. The influence of anion pair upon the extraction of some cations and of arginine by means of crown ethers
C. Luca, P. Ionita, D. O. Popescu, T. Constantinescu
Rev. Roum. Chim., 1998, 43, 541-4.
9. Transfer of alkali cations by means of crown ethers and some hydrazine derivatives.
C. Luca, P. Ionita, E. Popa, T. Constantinescu
Rev. Roum. Chim, 1998, 43, 753-6.
8. The reaction of DPPH with H_2O and H_2O_2 in presence of cryptands.
C. Luca, P. Ionita, T. Constantinescu
Rev. Roum. Chim, 1998, 43, 129-31.
7. The syntheses of 2-(p-nitrophenyl)-2-phenyl-1-picrylhydrazine, 2,2-bis(p-nitrophenyl)-1-picrylhydrazine and their ^{15}N labelled congeners.
C. Luca, P. Ionita, M. T. Caproiu, H. Caldararu, T. Constantinescu
Rev. Roum. Chim, 1998, 43, 221-4.
6. The preparation of solid supramolecular complexes between crown ethers, potassium and 2,2-diphenyl-1-picrylhydrazyl anion.
C. Luca, P. Ionita, M. T. Caproiu, T. Constantinescu
Rev. Roum. Chim, 1998, 43, 25-30.
5. The reaction between the dpph free radical and potassium cyanide in the presence of crown ether 18-C-6.
P. Ionita, T. Constantinescu, C. Luca, H. Caldararu, M. T. Caproiu, A. T. Balaban
New. J. Chem., 1997, 21, 511-5.
4. The reaction of free stable 2,2-diphenyl-1-picrylhydrazyl radical with koh in presence of polyethylene glycols.
C. Luca, P. Ionita, T. Constantinescu
Rev. Roum. Chim., 1997, 42, 683-5.
3. The reaction of 2,2-diphenyl-1-picrylhydrazyl with HO^- anion in the presence of crown ethers.
C. Luca, P. Ionita, T. Constantinescu, H. Caldararu, A. Caragheorgheopol, M. T. Caproiu
Rev. Roum. Chim., 1997, 42, 985-92.

2. Formation of the supramolecular complex with crown ethers, alkali hydroxides and 2,2-diphenyl-1-picrylhydrazine as partners in liquid-liquid and solid-liquid diphasic system.

C. Luca, P. Ionita, T. Constantinescu, H. Caldararu, A. Caragheorgheopol, M. T. Caproiu

Rev. Roum. Chem., 1997, 42, 105-9.

1. 1,1-Diphenyl-2-picrylhydrazine pair anion in interphase transfer alkali cations and arginine as supramolecular complexes in water -methylene chloride system

C. Luca, P. Ionita, T. Constantinescu

Rev. Roum. Chim., 1994, 39, 1141-9.