



Europass

Prenume / NUME

Adresa Bucuresti, Romania
E-mail petre.ionita@chimie.unibuc.ro
Nationalitate Romana
Anul nasterii [REDACTED]
Sex Masculin

Domeniu

Experienta

Data

Functie Prof. Dr. (2019-prezent); Conf. Dr. (2008-2019)
Activitati principale Didactica / Cercetare
Institutia Universitatea din Bucuresti, Facultatea de Chimie
Departament Chimie Organica, Biochimie si Cataliza

Data

Ocupatia Cercetator II; Cercetator III; Cercetator; Asistent cercetare
Activitati principale Cercetare
Institutia Institutul de Chimie Fizica al Academiei Romane
Departament Chimie supramoleculara si procese interfazice

Educatie

Data

Titlu 3 Burse Postdoctorale (2000, 2001, 2003-2006)
Domeniu Chimie organica, nanomateriale, radicali liberi
Institutia Universitatea din York, UK

Data

Titlu Ph. D.
Domeniu Chimie
Institutia Universitatea Politehnica Bucuresti

Data

Titlu B.A./ M.Sc.
Domeniu Chimie Organica
Institutia Universitatea din Bucuresti

Curriculum Vitae

Petre IONITA

Bucuresti, Romania
petre.ionita@chimie.unibuc.ro
Romana
Masculin

Chimie

2008-prezent

Prof. Dr. (2019-prezent); Conf. Dr. (2008-2019)

Didactica / Cercetare
Universitatea din Bucuresti, Facultatea de Chimie
Chimie Organica, Biochimie si Cataliza

1992-2008

Cercetator II; Cercetator III; Cercetator; Asistent cercetare
Cercetare
Institutia Institutul de Chimie Fizica al Academiei Romane
Chimie supramoleculara si procese interfazice

2000-2006

Titlu 3 Burse Postdoctorale (2000, 2001, 2003-2006)
Domeniu Chimie organica, nanomateriale, radicali liberi
Institutia Universitatea din York, UK

1993-1997

Titlu Ph. D.
Domeniu Chimie
Institutia Universitatea Politehnica Bucuresti

1987-1992

Titlu B.A./ M.Sc.
Domeniu Chimie Organica
Institutia Universitatea din Bucuresti

Competente	<p>Chimie organica.</p> <p>Investigatii structurale si fizico-chimice (UV-VIS, IR, RMN, RES, MS, voltametrie ciclica, HPLC, GC, TLC).</p> <p>Radicali liberi stabili sau cu viata scurta. Spin-trapping.</p> <p>Chimie supramoleculara si nanomateriale.</p>																								
Limba materna	Romana																								
Limbi straine	Engleza (fluent), Franceza																								
Autoevaluare <i>Nivel European (*)</i>	<table border="1"> <thead> <tr> <th colspan="2">Intelegere</th> <th colspan="2">Vorbit</th> <th colspan="2">Scris</th> </tr> <tr> <th>Ascultare</th> <th>Citire</th> <th>Dialog</th> <th>Prezentare</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>C2</td> <td>C2</td> <td>C2</td> <td>C2</td> <td>C2</td> <td>C2</td> </tr> <tr> <td>B1</td> <td>C1</td> <td>A2</td> <td>A2</td> <td>A2</td> <td>A2</td> </tr> </tbody> </table>	Intelegere		Vorbit		Scris		Ascultare	Citire	Dialog	Prezentare			C2	C2	C2	C2	C2	C2	B1	C1	A2	A2	A2	A2
Intelegere		Vorbit		Scris																					
Ascultare	Citire	Dialog	Prezentare																						
C2	C2	C2	C2	C2	C2																				
B1	C1	A2	A2	A2	A2																				
(*) <i>Common European Framework of Reference for Languages</i>																									
Competente organizatorice	<p>Director granturi:</p> <p>UEFISCDI Idei 77/2017, Oxid de grafena functionalizat cu compusi organici</p> <p>UEFISCDI Idei 87/2011, Radicali stabili multifunctionali</p> <p>CNCSIS Idei 46/2007, Nanoparticule hibride multistrat</p> <p>CNCSIS 'A' 5/2006, Nanoparticule paramagnetice</p>																								
Teza de abilitare	Multifunctional organic free radicals, 2013, Universitatea din Bucuresti Conducator de doctorat in domeniul CHIMIE																								
Cursuri tinute	<ol style="list-style-type: none"> 1. Bazele chimiei organice si hidrocarburi 2. Compusi organici cu functiuni simple 3. Determinarea structurii compusilor organici 4. Compusi naturali 5. Semisinteze de compusi bioactivi 6. Compusi bioorganici si coloranti 7. Reactii de cuplare si mecanisme de reactie in chimia organica 8. Analiza structurala organica si mecanisme de reactie 9. Radicali liberi in chimie si biologie 10. Compuși paramagnetic- sinteza si aplicatii (engleza) 																								
Lucrari indrumate	Finalizate: Licenta 10, Master 6, Doctorat 3																								
Publicatii	<p>125 lucrari ISI</p> <p>http://www.researcherid.com/rid/B-5566-2011, https://orcid.org/0000-0002-2216-3842</p> <p>5 carti/ note curs 2000 citari Indice Hirsch 21</p>																								

Lista de lucrari Petre Ionita

144. Unexpected rearrangement of phenoxypicramide to 1,3-dinitro-10H-phenoxazine
A. T. Balaban, M. Ferbinteanu, E. Hristea, R. Baratoiu, P. Ionita
Rev. Roum. Chim., 2024, 69, 331-336.
10.33224/rrch.2024.69.5-6.11
143. Synthesis of novel p-aminophenyl derivates of DPPH free radical.
A. F. Dobre, A. M. Madalan, V. Tecuceanu, A. Hanganu, P. Ionita
Rev. Roum. Chim. 2024, 69, 57-61.
10.33224/rrch.2024.69.1-2.07
142. Contribution to the synthesis, characterization, separation and quantification of new N-acyl thiourea derivatives with antimicrobial and antioxidant potential
R. Roman, L. Pintilie, D. C. Nută, M. T. Căproiu, F. Dumitrașcu, I. Zarafu, P. Ioniță, I. C. Marinas, L. Mărățescu, E. Denes, S. Ardelean, C. Limban
Pharmaceutics 2023, 15, 2501.
10.3390/pharmaceutics15102501
141. Novel Derivatives of Nitrobenzofurazan with Chromogenic and Fluorogenic Properties
Bujor, A.; Hanganu, A.; Baratoiu, R.; Hristea, E.N.; Tudose, M.; Tecuceanu, V.; Madalan, A.M.; Ionita, P.
Molecules 2023, 28, 6146.
10.3390/molecules28166146
140. Repurposing anti-inflammatory drugs for fighting bacterial biofilms. New carbazole derivatives based on the NSAID carprofen: synthesis, in silico and in vitro biological evaluation
F. Dumitrascu, M. R. Caira, S. Avram, C. Buiu, A. M. Udrea, M. Vlad, I. Zarafu, P. Ionita, D. C. Nuta, M. Popa, M. C. Chifiriuc, C. Limban
Front. Cell. Infect. Microbiol. 2023, 13, 1181516.
10.3389/fcimb.2023.1181516
139. New N-acyl thiourea derivatives: synthesis, standardized quantification method and in vitro evaluation of potential biological activities
Roman, R.; Pintilie, L.; Caproiu, M.T.; Dumitrascu, F.; Nuta, D.C.; Zarafu, I.; Ionita, P.; Chifiriuc, M.C.; Chirita, C.; Morosan, A.; et al.
Antibiotics 2023, 12, 807.
10.3390/antibiotics12050807
138. Insights into the microbicidal, antibiofilm, antioxidant and toxicity profile of new O-aryl-carbamoyl-oxymino-fluorene derivatives
Vlad, I.M.; Nută, D.C.; Ancuceanu, R.V.; Costea, T.; Coanda, M.; Popa, M.; Marutescu, L.G.; Zarafu, I.; Ionita, P.; Pirvu, C.E.D.; Bleotu, C.; Chifiriuc, M.; Limban, C.
Int. J. Mol. Sci. 2023, 24, 7020.
10.3390/ijms24087020
137. Biological evaluation and structural analysis of some aminodiphenylamine derivatives
A. Bujor, A. Hanganu, V. Tecuceanu, A. M. Madalan, M. Tudose, L. Marutescu, M. Popa, C. M. Chifiriuc, I. Zarafu, P. Ionita
Antioxidants 2023, 12 art. no. 713.
10.3390/antiox12030713

136. Synthesis and anti-melanoma activity of l-cysteine-coated iron oxide nanoparticles loaded with doxorubicin
L. I. Toderas, L. E. Sima, S. Orobet, P. E. Florian, M. Icriverzi, V. Maraloiu, C. Comanescu, N. Iacob, V. Kuncser, I. Antohe, G. Popescu-Pelin, G. Stanciu, P. Ionita, C. N. Mihailescu, G. Socol
Nanomaterials 2023, 13, 621.
10.3390/nano13040621
135. Zwitterion or diradicaloid? The case of diazenium betaines derived from DPPH
A. F. Dobre, A. M. Madalan, S. Ionescu, A. Hanganu, C. Lete, C. C. Popescu, A. Paun, M. Matache, P. Ionita
J. Molec. Struct., 2023, 1275, 134703.
10.1016/j.molstruc.2022.134703
134. Synthesis and structural analysis of a nitrobenzofurazan derivative of dibenzo-18-crown-6 ether
A. Bujor, V. Tecuceanu, A. Hanganu, P. Ionita
Chemistry, 2022, 4, 1696-1701.
10.3390/chemistry4040110
133. *N,N*-Bis(7-nitrobenz[c][1,2,5]oxadiazol-4-yl)cystamine
Matei, I.; Culita, D. C.; V. Tecuceanu, Hanganu, A., Ionita, P.
Molbank 2022, 2022, M1423.
10.3390/M1423
132. Laccase-TEMPO as an efficient system for doxorubicin removal from wastewaters
L. Jinga, M. Tudose, P. Ionita
Int. J. Environ. Res. Pub. Health, 2022, 19, 6645.
10.3390/ijerph19116645
131. Linear and cyclic ethylene-glycols labelled with nitrobenzofurazan motifs
A. Bujor, I. Matei, D. Culita, A. Hanganu, V. Tecuceanu, P. Ionita
Rev. Roum. Chim., 2022, 67, 467-471.
10.33224/rrch.2022.67.8-9.05
130. Novel structures of functionalized graphene oxide with hydrazide: characterization and bioevaluation of antimicrobial and cytocompatibility features
I. Zarafu, C. Limban, C. Radulescu, I. D. Dulama, D. Nuta, C. Chirita, M. Chifiriuc, C. Badiceanu, M. Popa, C. Bleotu, L. Dragu, R. Stirbescu, I. Bucurica, S. Stanescu, P. Ionita
Coatings, 2022, 12, art. no. 12.
10.3390/coatings12010045
129. Chemical degradation of methylene blue dye using TiO₂/Au nanoparticles
L. I. Jinga, G. Popescu-Pelin, G. Socol, S. Mocanu, M. Tudose, D. C. Culita, A. Kuncser, P. Ionita
Nanomaterials, 2021, 11, art. no. 1605.
10.3390/nano11061605
128. The use of essential oils as a strategy to combat microbial biofilms. A review
D. C. Nuță, C. Limban, C. Chiriță, M. C. Chifiriuc, T. Costea, P. Ioniță, I. Nicolau, I. Zarafu
Processes, 2021, 9, art. no. 537.
10.3390/pr9030537
127. Rational functionalization towards green materials: novel redox active Tempo stable free

radical-hydrochar composites

G. Patrinoiu, J. M. Calderon Moreno, S. Somacescu, A. M. Musuc, T. Spataru, P. Ionita, O. Carp

ChemSusChem, 2021, 14, 2042-2049.

10.1002/cssc.202100100

126. Synthesis and characterization of a new hydrazyl free radical, a formyl-derivative of DPPH

P. Ionita

Rev. Roum. Chim., 2021, 66, 205-209.

10.33224/rrch.2021.66.2.12

125. The chemistry of DPPH· free radical and congeners

P. Ionita

Int. J. Molec. Struct., 2021, 22, art. no.1545.

10.3390/ijms22041545

124. Synthesis, characterization, and biologic activity of new acyl hydrazides and 1,3,4-oxadiazole derivatives

I. Zarafu, L. Matei, C. Bleotu, P. Ionita, A. Tatibouët, A. Păun, I. Nicolau, A. Hanganu, C. Limban, D. C. Nuta, R. M. Nemeş, C. C. Diaconu, C. Radulescu

Molecules, 2020, 25, art. no. 3308.

10.3390/molecules25143308

123. A mixed organic functionalized silica-graphene oxide as advanced material for pollutants removal

S. Avramescu, S. Petrescu, D. C. Culita, M. Tudose, A. Hanganu, I. Zarafu, P. Ionita

J. Nanoparticle Res., 2020, 22, art. no. 194.

10.1007/s11051-020-04935-2

122. Synthesis of fluorescent dansyl derivatives of methoxyamine and diphenylhydrazine as free radical precursors

B. Patrascu, S. Mocanu, A. Coman, A. M. Madalan, C. Popescu, A. Paun, M. Matache, P. Ionita

Int. J. Mol. Sci., 2020, 21, art no. 3559.

10.3390/ijms21103559

121. Synthesis and structural analysis of some nitroderivatives of a dopamine analog

A. M. Mădălan, M. Matache, P. Ionita

Rev. Roum. Chim., 2020, 65, 103-107.

10.33224/rrch.2020.65.2.12

120. Design, synthesis and in vitro characterization of novel antimicrobial agents based on 6-chloro-9H-carbazol derivatives and 1,3,4-oxadiazole scaffolds

A. T. Bordei, D. C. Nuta, M. T. Caproiu, F. Dumitrascu, I. Zarafu, P. Ionita, C. D. Badiceanu, S.

Avram, M. C. Chifiriuc, C. Bleotu, C. Limban

Molecules, 2020, 25, art. no. 266.

10.3390/molecules25020266

119. Aminopropyl-silica functionalized with halogen-reactive compounds for antimicrobial applications

I. Zarafu, A. Al Taweel, C. Limban, M. Popa, L. Măruțescu, C. Chifiriuc, G. Pircalabioru, D. Culică, C. Ghica, P. Ionita

Mat. Chem. Phys., 2020, 241, art. no. 12253.

10.1016/j.matchemphys.2019.122353

118. Bioevaluation of the antimicrobial and anti-proliferative potential of some derivatives of 3,5-dinitro-4-methoxyamino-benzoic acid
I. Zarafu, B. Patrascu, L. Măruțescu, C. Bleotu, C. Limban, A. Tatibouët, M. C. Chifiriuc, P. Ionita
Farmacia, 2020, 68, 8-14.
10.31925/farmacia.2020.1.2
117. Crown-ether functionalized graphene oxide for metal ions sequestration
S. Petrescu, S. Avramescu, A. M. Musuc, F. Neatu, M. Florea, P. Ionita
Mat. Res. Bull., 2020, 122, art. no. 110643.
10.1016/j.materresbull.2019.110643
116. Synthesis and spectral comparison of electronic and molecular properties of some hydrazines and hydrazyl free radicals
B. Patrascu, C. Lete, C. Popescu, M. Matache, A. Paun, A. Madalan
Arkivoc, 2020, vi, 1-10.
10.24820/ark.5550190.p011.119
115. Capillary electrophoresis with dual detection UV/C4D for monitoring myrosinase-mediated hydrolysis of thiol glucosinolate designed for gold nanoparticle conjugation
B. Claude, G. Cutolo, A. Farhat, I. Zarafu, P. Ionita, M. Schuler, A. Tatibouët, P. Morin, R. Nehmé
Analytica Chim. Acta, 2019, 1085, 117-125.
10.1016/j.aca.2019.07.043
114. Microwave assisted synthesis and spectroscopic characterization of some novel Schiff bases of carprofen hydrazide
A. Bordei (Telehoiu), D. Nuță, G. Mușat, A. Missir, M. Căproiu, F. Dumitrașcu, I. Zarafu, P. Ioniță, C. Bădiceanu, C. Limban, E. Ozon
Farmacia, 2019, 67, 955-962.
10.31925/farmacia.2019.6.4
113. A novel profluorescent paramagnetic diaza-crown ether: synthesis, characterization and alkaline metal-ion complexation
A. Coman, C. Stavarache, A. Paun, C. Popescu, N. Hadade, P. Ionita, M. Matache
RSC Advances, 2019, 9, 6078-6083.
10.1039/c8ra09828j
112. Thermal, spectral and biological characterisation of copper(II) complexes with isoniazid-based hydrazones
I. Zarafu, M. Badea, G. Ionita, C. Chifiriuc, C. Bleotu, M. Popa, P. Ionita, A. Tatibuet, R. Olar
J. Therm. Analys. Calor., 2019, 136, 1977-1987.
10.1007/s10973-018-7853-z
111. Synthesis, thermal, spectral, antimicrobial and cytotoxicity profile of the Schiff bases bearing pyrazolone moiety and their Cu(II) complexes
I. Zarafu, R. Olar, C. Chifiriuc, C. Bleotu, P. Ionita, M. Multescu, G. Ionita, G. Gradisteanu, A. Tatibuet, M. Badea
J. Therm. Analys. Calor., 2018, 134, 1851-1861.
10.1007/s10973-018-7681-1
110. Antimicrobial features of organic functionalized graphene-oxide with selected amines
I. Zarafu, I. Turcu, D. C. Culică, S. Petrescu, M. Popa, C. M. Chifiriuc, C. Limban, A. Telehoiu, P.

Ionita

Materials, 2018, 11, art. no. 1704.

10.3390/ma11091704

109. Synthesis and structural characterization of some novel methoxyamino derivatives with acid-base and redox behaviour

M. Bem, R. Baratoiu, C. Radutiu, C. Lete, S. Mocanu, G. Ionita, S. Lupu, M. T. Caproiu, A. M. Madalan, B. Patrascu, I. Zarafu, P. Ionita

J. Molec. Structure, 2018, 1173, 291-299.

10.1016/j.molstruc.2018.06.114

108. Conformation-induced light emission switching of *N*-acylhydrazone systems

A. Coman, A. Paun, C. Paraschivescu, N. Hadade, C. Anghel, A. Madalan, P. Ionita, M. Matache
New J. Chem., 2018, 42, 14111-14119.

10.1039/c8nj01880d

107. Complexation of β -cyclodextrin with dual molecular probes bearing fluorescent and paramagnetic moieties linked by short polyether chains

S. Mocanu, I. Matei, S. Ionescu, V. Tecuceanu, G. Marinescu, P. Ionita, D. Culita, A. Leonties, G. Ionita

Phys. Chem. Chem. Phys., 2017, 19, 27839-27847.

10.1039/c7cp05276f

106. Synthesis of novel profluorescent nitroxides as dual luminescent-paramagnetic active probes

A. G. Coman, C. C. Paraschivescu, A. Paun, A. Diac, N. D. Hădade, L. Jouffret, A. Gautier, M. Matache, P. Ionita

New J. Chem., 2017, 41, 7472-7480.

10.1039/c7nj01698k

105. Selective oxidation of alcohols with stable organic polyyradicals

A. Shakir, G. Ionita, P. Ionita

Rev. Roum. Chim., 2017, 62, 795-800.

104. A comparison between nitroxide and hydrazyl free radicals in selective alcohols oxidation

A. Shakir, A. Madalan, G. Ionita, S. Lupu, C. Lete, P. Ionita

Chem. Phys., 2017, 490, 7-11.

10.1016/j.chemphys.2017.03.011

103. Lipoic acid gold nanoparticles functionalized with organic compounds as bioactive materials

I. Turcu, I. Zarafu, M. Popa, M. Chifiriuc, C. Bleotu, D. Culita, C. Ghica, P. Ionita

Nanomaterials, 2017, 7, art. no. 43.

10.3390/nano7020043

102. Spectral, magnetic, thermal and biological studies on Ca(II) and Cu(II) complexes with a novel crowned Schiff base

I. Zarafu, M. Badea, G. Ionita, P. Ionita, A. Paun, M. Bucur, M. Chifiriuc, C. Bleotu, R. Olar

J. Therm. Analysis Calor., 2017, 127, 1511-1521.

10.1007/s10973-016-5573-9

101. Covalently grafted TEMPO on graphene oxide: a composite material for selective oxidations of alcohols

A. J. Shakir, D. C. Culita, J. C. Moreno, A. Musuc, O. Carp, G. Ionita, P. Ionita

Carbon, 2016, 105, 607-614.
10.1016/j.carbon.2016.05.006

100. Exploring porous nanosilica-TEMPO as heterogeneous aerobic oxidation catalyst. The influence of supported gold clusters

A. Shakir, M. Florea, D. C. Culita, G. Ionita, C. Ghica, C. Stavarache, A. Hanganu, P. Ionita
J. Porous Mat., 2016, 23, 247-254.
10.1007/s10934-015-0076-9

99. Synthesis of novel TEMPO stable free (poly)radicals derivatives and their host-guest interaction with cucurbit[6]uril

G. Ionita, A. M. Madalan, A. M. Ariciu, A. Medvedovici, P. Ionita
New J. Chem., 2016, 40, 503-511.
10.1039/c5nj01518a

98. Investigations on carboxy dibenzylidene sorbitol hydrogels using EPR spectroscopy

A. Ariciu, T. Staicu, M. Micutz, M. Neacsu, P. Ionita, V. Tecuceanu, C. Munteanu, G. Ionita
Applied Mag. Resonance, 2015, 46, 1395-1407.
10.1007/s00723-015-0690-3

97. A convenient alternative for the oxidation of various alcohols by silica supported TEMPO free radical using nitrosonium tetrafluoroborate as cocatalyst

A. Shakir, C. Paraschivescu, M. Matache, M. Tudose, A. Mischie, F. Spafiu, P. Ionita
Tetrahedron Lett., 2015, 56, 6878-6881.
10.1016/j.tetlet.2015.10.099

96. Silver azide nanoparticles embedded into silica as energetic nano-materials

C. Ghica, R. Damian, D. Culita, I. Turcu, P. Ionita
Mat. Sci., 2015, 21, 329-332.
10.5755/j01.ms.21.3.6926

95. Convenient synthesis of 2-alkynylbenzoxazoles through Sonogashira cross-coupling reaction between thioethers and terminal alkynes

A. Paun, M. Matache, F. Enache, I. Nicolau, C. Paraschivescu, P. Ionita, I. Zarafu, V. I. Parvulescu, G. Guillaumet
Tetrah. Lett., 2015, 56, 5349-5352.
10.1016/j.tetlet.2015.08.001

94. Antibacterial activity evaluation of silver nanoparticles entrapped in silica matrix functionalized with antibiotics.

M. Tudose, D. C. Culita, C. Munteanu, J. Pandele, I. Zarafu, P. Ionita, C. Chifiriuc,
J. Inorg. Organomet. Polym., 2015, 25, 869-878.
10.1007/s10904-015-0176-7

93. Antioxidant activit of rosemary extracts in solution and embedded in polymeric systems

G. Ionita, P. Ionita, V. Dinoiu, C. Munteanu, I. Turcu, E. Oprea
Chem. Pap., 2015, 69, 872-880.
10.1515/chempap-2015-0024

92. Silver nanoparticles embedded into silica functionalized with vitamins as biological active materials.

M. Tudose, D. C. Culita, P. Ionita, C. Chifiriuc

Ceramics Int., 2015, 41, 4460-4467.

10.1016/j.ceramint.2014.11.138

91. The biological activities of some new isonicotinic acid (2-hydroxy-8-substituted-tricyclo[7.3.1.0^{2.7}]tridec-13-ylidene)-hydrazides.

Matei L., Bleotu C., Baciu I., Diaconu C.C., Hanganu A., Banu O., Ionita P., Paun A., Zarafu I.

Bioorganic&Medicinal Chem., 2015, 23, 401-410.

10.1016/j.bmc.2014.12.038

90. An EPR spin-trapping study of free radicals in cigarette smoke

A. M. Ariciu, P. Ionita, G. Ionita

Rev. Roum. Chim., 2014, 59, 781-789.

89. Degradation of methylparaben in water by corona plasma coupled with ozonation

D. Dobrin, M. Magureanu, C. Bradu, N. B. Mandache, P. Ionita, V. I. Parvulescu

Environ. Sci. Pollution. Res., 2014, 21, 12190-12197.

10.1007/s11356-014-2964-y

88. Parabens lipophilicity determination with mobile phases containing low and medium hydrophobic alcohols

E. Caiali, D. Casoni, P. Ionita, V. David, C. Sarbu

J. Liquid Chromat. Related Technol., 2014, 37, 2287-2301.

10.1080/10826076.2013.830270

87. Thermal behavior of several stable hydrazyl free radicals and of their parent hydrazines

M. Marinescu, C. Zalaru, M. Florea, P. Ionita

J. Thermal Analysis Calorim., 2014, 116, 259-263.

10.1007/s10973-013-3448-x

86. A QSPR Study on Some Hydrazyl Radicals and Congeners

M. Marinescu, C. Zalaru, P. Ionita

Sci. Bull., 2014, 76, 175-184.

85. The influence of redox chemical surface treatments on silver nanoparticles

M. Tudose, C. Munteanu, G. Marinescu, D. Culita, P. Ionita

Digest J. Nanomat. Biostruct., 2013, 4, 1761-1770.

84. A mechanistic glimpse on the oxidation of alcohols using TEMPO/NQcatalytic systems: towards a greener bifunctional catalyst

P. Ionita

RSC Advances, 2013, 3, 21218-21221.

10.1039/c3ra44863k

83. Synthesis and structural characterization of a stable betaine imino-nitroxide free diradical

A. Paun, I. Zarafu, M. T. Caproiu, P. Ionita

Arkivoc, 2013, iv, 144-151.

10.3998/ark.5550190.p008.314

82. Synthesis and bioevaluation of several new isoniazid derivatives

L. Matei, C. Bleotu, I. Baciu, C. Draghici, P. Ionita, A. Paun, C. M. Chifiriuc, A. Sbarcea, I. Zarafu
Bioorganic & Medicinal Chemistry, 2013, 21, 5355-5361.

10.1016/j.bmc.2013.06.013

81. Synthesis and microbiological evaluation of several benzocaine derivatives
A. Paun, I. Zarafu, M. T. Caproiu, C. Draghici, M. Maganu, A. I. Cotar, M. C. Chifiriuc, P. Ionita
Comptes Rendu Chimie, 2013, 16, 665-671.
10.1016/j.crci.2013.03.012
80. An enhanced colorimetric chemosensor for the detection of various nitro-explosives
P. Ionita
Tetrahedron Lett., 2012, 53, 7143-7146.
10.1016/j.tetlet.2012.10.095
79. Reversible aggregation between nanoparticles induced by acid-base interactions
G. Ionita, C. Ghica, I. Turcu, P. Ionita
Chem. Phys. Lett., 2012, 546, 133-135.
10.1016/j.cplett.2012.08.009
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.
10.1080/15421406.2012.676834
77. Chemical and biological evaluation of some new antipyrine 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.
10.1016/j.bioorg.2011.12.003
- 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.
10.1007/s10904-011-9470-1
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.
10.3998/ark.5550190.0012.228
73. *N*-Alkoxy-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.
10.1007/s11224-010-9666-y
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.

10.2478/s11532-010-0063-6

71. New hydrazyl derivatives with multiple properties

M. Tudose, D. Angelescu, G. Ionita, M. T. Caproiu, P. Ionita

Lett. Org. Chem., 2010, 7, 182-185.

10.2174/157017810790796309

70. Wurster aza-crown ethers with *N*-*para*-phenylene-phenothiazine or -phenoxazine groups

A. C. Radutiu, I. Baciu, 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.

10.3998/ark.5550190.0010.d29

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.

10.3998/ark.5550190.0010.a17

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.

10.1007/s10904-009-9260-1

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.

10.1002/ejoc.200800735

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.

10.3998/ark.5550190.0009.h30

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.

10.1007/s10853-008-2987-1

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.

10.3998/ark.5550190.0009.e16

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.
10.1007/s10904-008-9210-3
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.
10.3998/ark.5550190.0009.c09
60. Hydrazyl-nitrones and hydrazyl-nitroxides, multifunctional molecules as sensors and probes
P. Ionita
Let. Org. Chem., 2008, 5, 42-46.
10.2174/157017808783330144
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.
10.1021/ac071266s
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.
10.1016/j.apsusc.2007.07.184
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.
10.1039/b711573c
56. Ligand dynamics in spin-labeled Au nanoparticles
P. Ionita, J. Wolowska, V. Chechik, A. Caragheorgheopol
J. Phys. Chem. C, 2007, 111, 16717-16723.
10.1021/jp073633+
55. Paramagnetic silica-coated gold nanoparticles
C. Ghica, P. Ionita
J. Mat. Sci., 2007, 42, 10058-10064.
10.1007/s10853-007-1980-4
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.
10.1071/CH06469

52. An investigation of oxygen centred radicals in cigarette smoke by electron spin resonance
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.
10.1007/BF03166213

50. Hydrazyl-nitrones, novel hybrid molecules in free radical research
P. Ionita
Free Radic. Res., 2006, 40, 59-65.
10.1080/10715760500385699

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.
10.3998/ark.5550190.0007.311

48. Synthesis and properties of bis-dinitrophenyl derivatives of 1,7,10,16-tetraoxa-4,13-diazacyclooctadecane (Kryptofix 22)
A. Radutiu, I. Baciu, 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.
10.3998/ark.5550190.0006.418

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.
10.1002/anie.200500518

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.
10.1021/jp045696n

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.
10.1021/la048121q

42. Spin-labelled Au nanoparticles

V. Chechik, P. Ionita, B. C. Gilbert, A. Caragheorgheopol, H. Calderaru, H. Wellsted, A. Korte
Faraday Discuss., 2004, 125, 279-291.
10.1039/b302730a

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, 70-74.

10.2174/1570178043488752

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, 465-476.

10.2478/BF02475228

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.

10.2478/BF02479257

38. A new crown compound with multifunctional capabilities

G. Ionita, P. Ionita

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

10.1023/A:1023019318282

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, 9048-9049.

10.1021/ja0265456

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, 1453-1462.

10.1039/b102748b

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. Calderaru, P. Ionita, A.T. Balaban

Polish J. Chem., 2001, 75, 1427-1440.

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, 269-271.

10.1023/A:1011110628370

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

P. Ionita, M.T. Caproiu, H. Calderaru, G. Ionita

Rev. Roum. Chim., 2001, 46, 363-369.

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, 803-806.

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, 357-360.

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, 1089-1096.

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, 935-941.

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, 2436-2440.
10.1039/b006616h

27. Kinetics of oxidation of amino acids by some free stable hydrazyl radicals
V. Em. Sahini, G. Ionita, G. Semenescu, P. Ionita
Acta Chem. Slovenica, 2000, 47, 111-119.

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, 823-829.

25. Synthesis based on 9-amino-n-picrylcarbazyl
P. Ionita, M. T. Caproiu, A. Meghea, O. Maior, M. Rovinaru, G. Ionita
Polish J. Chem., 1999, 73, 1177-1183.

24. Host-guest complexes of some stable free radicals
P. Ionita
J. Incl. Phen. Molec. Rec., 1999, 34, 253-258.
10.1023/A:1008029709327

23. ^{15}N Regioselectively [$^{15}\text{NO}_2$]-labelled N-methoxypicramide and DPPH prepared by using a crown ether and solid sodium ^{15}N nitrite
M. T. Caproiu, I. C. Covaci, P. Ionita, C. Luca, T. Constantinescu, A. T. Balaban
J. Nuclear Radioanalytical Chem., 1999, 242, 773-776.
10.1007/BF02347393

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. Calderaru, M. T. Caproiu, F. Dumitrescu, I. Silberg, A. T. Balaban
Rev. Roum. Chim., 1999, 44, 393-396.

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, 351-356.

20. 3,5-Dinitro-4-methoxyaminobenzoic acid and its derivatives

I. Covaci, T. Constantinescu, M. T. Caproiu, C. Draghici, P. Ionita, C. Luca, G. Stanciu, M. Maganu, A. T. Balaban
Rev. Roum. Chim., 1999, 44, 333-340.

19. The active transport of potassium, arginine, protons and electrons through bulk liquid membranes

C. Luca, P. Ionita, T. Constantinescu

Rev. Roum. Chim., 1999, 44, 39-44.

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. Calderaru
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.
[10.48141/SBJCHEM.v6.n7.1998.58_1998_2.pdf](https://doi.org/10.48141/SBJCHEM.v6.n7.1998.58_1998_2.pdf)

16. The reaction between DPPH free stable radical and N-bromosuccinimide

P. Ionita
South. Braz. J. Chem., 1998, 6, 101-106.
[10.48141/SBJCHEM.v6.n7.1998.99_1998_2.pdf](https://doi.org/10.48141/SBJCHEM.v6.n7.1998.99_1998_2.pdf)

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. Rev., 1998, 6, 271-282.

14. Normal and reversed phase TLC of some hydrazine derivatives

G. Ionita, T. Constantinescu, P. Ionita
J. Planar Chromatogr. Modern TLC, 1998, 11, 141-144.

13. Selective (¹⁵N) 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. Calderaru, A. T. Balaban
J. Label. Cpd. Radiopharm., 1998, XLI, 791-799.
[10.1002/\(SICI\)1099-1344\(1998090\)41:9<791::AID-JLCR137>3.0.CO;2-2](https://doi.org/10.1002/(SICI)1099-1344(1998090)41:9<791::AID-JLCR137>3.0.CO;2-2)

12. Supramolecular complexes of l-alanil-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, 469-472.

11. Gas-chromatographic studies using glass capillary columns with crown-ether type stationary phases. i. Naphyl azocrown ethers and related compounds: synthesis and properties.
C. Luca, F. Spafiu, M. T. Caproiu, E. Tudor, P. Ionita, T. Constantinescu, M. Danescu, A. Stanciu
Rev. Roum. Chim., 1998, 43, 287-293.
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, 541-544.
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, 753-756.
8. The reaction of DPPH with H₂O and H₂O₂ in presence of cryptands.
C. Luca, P. Ionita, T. Constantinescu
Rev. Roum. Chim., 1998, 43, 129-131.
7. The syntheses of 2-(p-nitrophenyl)-2-phenyl-1-picrylhydrazine, 2,2-bis(p-nitrophenyl)-1-picrylhydrazine and their ¹⁵N labelled congeners.
C. Luca, P. Ionita, M. T. Caproiu, H. Calderaru, T. Constantinescu
Rev. Roum. Chim., 1998, 43, 221-224.
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. Calderaru, M. T. Caproiu, A. T. Balaban
New. J. Chem., 1997, 21, 511-515.
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, 683-685.
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. Calderaru, A. Caragheorgheopol, M. T. Caproiu
Rev. Roum. Chim., 1997, 42, 985-992.
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. Calderaru, A. Caragheorgheopol, M. T. Caproiu
Rev. Roum. Chem., 1997, 42, 105-109.
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, 1141-1149.