

# CURRICULUM VITAE

## INFORMAȚII PERSONALE

Nume și prenume

Adresă

Telefon / Fax

E-mail

Naționalitate

Locul și data nașterii

Naționalitate

## HUMELNICU DOINA

Bd. N. Iorga, 51, G2, C-14

0232201136/0232201313

[doinah@uaic.ro](mailto:doinah@uaic.ro),

[humelnicud@yahoo.com](mailto:humelnicud@yahoo.com)

romana

Timisesti, Neamt, 18.02.1967

romana

## EXPERIENȚA PROFESIONALĂ

### ACTIVITATE DE EVALUARE ȘI EXPERTIZĂ

### DOMENII DE COMPETENȚĂ

### ACTIVITATEA ȘTIINȚIFICĂ (vezi ANEXE)

### EXPERIENȚĂ DE LUCRU ÎN CERCETARE ȘI INSTRUIRE

### SPECIALIZĂRI POSTUNIVERSITARE

### CĂRȚI / ARTICOLE PUBLICATE:

- **Cărți**, cursuri universitare și manuale de lucrări practice: 8
- **articole științifice** publicate în reviste de specialitate: 61, din care: **23** cu **ISI** in reviste din **străinătate**, **17** cu **ISI** in reviste din **țară**, **20** in reviste non ISI din țara.
- **participări** la manifestări științifice 74, din care în străinătate 17.

**Citări** lucrări indexate/recenzate în baze de date internaționale: 145; în SCOPUS, CAPLUS and MEDLINE, de Institute for Scientific Information (ISI), Chemical Abstracts, Current Contents etc. **Indice Hirsh = 8.**

**COORDONATOR ȘTIINȚIFIC:** lucrări de licență (85), lucrări de disertație (18), lucrări metodic-științifice pentru obținerea gradului I în învățământul preuniversitar (15).

**REFERENT ȘTIINȚIFIC:** *Journal of Hazardous Materials, Journal of Fluorescence, Chemical Engineering Journal, Annals of Nuclear Energy, Water Research, Central European Journal of Chemistry, Journal of Environmental Radioactivity, Cellulose Chemistry, American Journal of Applied Chemistry, Polymer Bulletin, African Journal of Microbiology Research,*

**DIRECTOR / RESPONSABIL GRANTURI DE CERCETARE / DEZVOLTARE:** cu finanțare internă: 1; cu finanțare externă:0

**COLABORATOR ÎN GRANTURI DE CERCETARE:** cu finanțare internă: 34; cu finanțare externă: 1

**2004 – prezent**, conferențiar universitar, prin concurs (Ordinul Ministrului Educației și Cercetării nr. 4628/06.09.2004), la Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Chimie;

**1998 – 2004: lector universitar**, prin concurs, la Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Chimie;

**1994 – 1998: asistent universitar**, prin concurs, la Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Chimie;

- mai 1995- "International Workshop / Symposium on Modern Nuclear Magnetic Resonance" organizat la Brasov de Fundatia Culturala Romina si Academia Romina
- aprilie 2004 – Radioactive, Radionuclides and Radiation – a Multi-Media Training Course with Nuclides.net, Institute for Transuranium Elements, Karlsruhe, Germania
- octombrie 2006 – vizita de documentare la Ecole Centrale Lyon, in cadrul proiectului Socrates/Erasmus *MOD project, 51388-IC-1-2004-1-RO-ERASMUS-MODUC-6*, MASS - Management and Security Assesment for Sustainable

- Environment
- iulie, 2006, Summer School «*Physics and chemistry of the atmosphere: from laboratory experiments to field campaigns*», Organizers: "Al. I. Cuza" University of Iasi, Romania; ARCUS Program French Ministry of Foreign Affairs Nord/Pas-de-Calais Region, France; "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania; Regional Agency for the Environmental Protection, Iasi, Romania
  - august 2007 vizita de documentare la Universitatea Alma Mater Studiorum, Bologna, in cadrul proiectului Socrates/Erasmus *MOD project, 51388-IC-1-2004-1-RO-ERASMUS-MODUC-6*, MASS - Management and Security Assesment for Sustainable Environment
  - martie 2009 Seminar de laborator I organizat de catre ABL&JASCO Romania
  - martie 2012 – curs Managementul calitatii in invatamantul superior, 2-3 martie 2012, Iasi

## EDUCAȚIE

**2000** doctorat în Chimie, Specialitatea Chimie

**1991**, iunie, examen de licență;

**1991** Facultatea de Chimie, Universitatea "Al.I. Cuza" Iasi ;

**1985**, iunie, examen de bacalaureat;

**1985**, Liceul de științe ale naturii "Vasile Alecsandri" Bacau;

**1981** Școala primară și gimnazială;

## STAGII DE PREGĂTIRE ȘI MOBILITĂȚI

- **2013** Pannonia University, Institute of Radiochemistry and Radioecology, Veszprem
- **2012** Pannonia University, Institute of Radiochemistry and Radioecology, Veszprem
- **2010** Pannonia University, Institute of Radiochemistry and Radioecology, Veszprem
- **2009**, Pannonia University, Institute of Radiochemistry and Radioecology, Veszprem
- **2008**, Pannonia University, Institute of Radiochemistry and Radioecology, Veszprem

## MEMBRU ÎN SOCIETĂȚI ȘTIINȚIFICE

**Membru** al Societății Române de Chimie,  
**Membru** al American Nano Society

## CUNOȘTINȚE UTILIZARE COMPUTERE

**Operare bună PC** (Microsoft Office Word; Microsoft Office Power Point; Microsoft Office Excel; Origin, Internet (Explorer, Mozilla, Opera), Chem draw, Isis draw,

## LIMBI STRĂINE CUNOSCUTE

Engleză (citit, scris, vorbit) - bine; Franceză - bine;.

Iași  
12.12.2013

## Lista publicatiilor stiintifice

1. I. Berdan, Doina Humelnicu, et A. Pui - Complexes du Ni(II) avec le bis-(formyl-2-pyrrole) ethylenediamine – *Ann. St. Univ. Al. I. Cuza Iasi*, Tom. III, s. Chimie 1995(89)
2. D. Ganju, P. Onu, S. Sova, V. Ababi, Doina Humelnicu and A. Pui - Structural characterization of some zeolites isomorphically substituted with iron- *Ann. St. Univ. Al. I. Cuza Iasi*, Tom. III, s. Chimie 1995(189)
3. D. Ganju, P. Onu, V. Ababi, Doina Humelnicu, D. Cozma - La synthese de quelques zeolithes de type mordenite substitute isomorphe par du Fe – *Ann. St. Univ. Al. I. Cuza Iasi*, Tom. III, s. Chimie 1995(181)
4. Al. Cecal, Doina Humelnicu, A. Pui, Carmen Balan -Quelques consideration sur l'echange isotopique dans le systeme Tl(solide) -  $^{204}\text{Tl}^+$  (solution) – *Ann. St. Univ. Al. I. Cuza Iasi*, Tom. III, s. Chimie 1995(81)
5. D. Ciugureanu, V. Mereanu, A. Rusu, Doina Humelnicu, Ileana Palamaru, Al. Cecal - Spectrophotometric method for the indirect determination of uranyl ions – *Ann. St. Univ. Al. I. Cuza Iasi*, Tom. III, s. Chimie 1995(85)
6. Al. Cecal, V. Rudic, A. Gulea, I. Palamaru, Doina Humelnicu, M. Goanta, V. V. Salaru - Purification of some radioactive effluents by means of microorganisms -*Rev. Roum. Biochim.* **32**, 1-2, 1995 (9-12)
7. D. Ganju, P. Onu, Doina Humelnicu, G. Caruntu and V. Ababi - Zeolites type ZSM - 5 isomorphically substituted with chrom – *Ann. St. Univ. Al. I. Cuza Iasi*, Tom. IV, s. Chimie 1996(101)
8. Al. Cecal, Doina Humelnicu, Carmen Mita, Alexandra Iordan and D. Colisnic - Use of some synthetic zeolites for the recovery of uranyl ions from residual waters – *Ann. St. Univ. Al. I. Cuza Iasi*, Tom. IV, s. Chimie 1996(83)
9. Al. Cecal, A. Gulea, V. Rudic, I. Palamaru, Doina Humelnicu und K. Popa - Bioakkumulation von  $\text{UO}_2^{2+}$  - und  $\text{Th}^{4+}$  - ionen aus abwassern - *Isotopes Environ. Health Stud.*, **33**, 1997(327-331),
10. Al. Cecal, V. Rudic, A. Gulea, Ileana Palamaru, Doina Humelnicu, Mirela Goanta and V. V. Salaru - Recuperation of uranyl ions from effluents by means of microbiological collectors - *Waste Management*, vol. **17**, No. **1**, 1997(97),
11. Al. Cecal, M. Palamaru and Doina Humelnicu - Radiokinetic Study of the Growth of Crystals having  $^{204}\text{Tl}^+$  and  $^{134}\text{Cs}^+$  as marked cations, in gelatin and agar- *Rev. Roum. Chim.*, **42**, 1997(1101),
12. Al. Cecal, I. Palamaru, Doina Humelnicu, K. Popa, V.V. Salaru, V. Rudic, A. Gulea- Removal of uranyl ions from residual waters using some algae types, *Czechoslovak Journal of physics*, vol.**49**(1999), Suppl. S1, p.987,
13. Al. Cecal, V. Rudic, A. Gulea, I. Palamaru, Doina Humelnicu, L. Cepoi, K. Popa – Verwendung von Mikrophytoalgen zur Reinigung von Radioaktiv verseuchten abwassern- *Rev. Roum. Biochim.* **36**,1-2, 25-31 (1999)
14. Al. Cecal, Doina Humelnicu, K. Popa, V. Rudic, A. Gulea, I. Palamaru and Gh. Nemtoi - Bioleaching of  $\text{UO}_2^{2+}$  ions from poor uranium ores by means of cyanobacteria – *J. Radioanal. Nucl. Chem.*, vol.**245**(2), (2000)427-429,

15. D. Ganju, G. Caruntu, *Doina Humelnicu* et D. Sutiman -Substitution isomorphe dans les yeolites type ZSM-5 - *Bull. Inst. Pol. Iasi*, Tom.XLVII (LI), Fasc.1-2, (2001), 53-61
16. D. Ganju, G. Caruntu, *Doina Humelnicu*, I. Sarghie and V. Tataru – Oxydation catalytique des composes organiques en presence de bisacetyl-acetonate vanadile(IV) immobilise sur le zeolithe type Y- *Ann. St. Univ. Al. I. Cuza Iasi*, T.VIII,1, (2000)93
17. Gh. Nemtoi, C. Beldie, C. Tircolea, I. Popa, Ig. Cretescu, I. Humelnicu and *Doina Humelnicu* – Behaviour of the Poly(Maleic Anhydride-co-vinyl Acetate) Copolymer in Aqueous Solutions *European Polymer Journal*, **37**(2001), 729-735,
18. *Doina Humelnicu*, Al. Cecal – Aspecte privind studiul produsilor CRUD ce rezulta in tehnologia nucleara – *Rev. Chim. Bucharest*, **53**(1), (2002)27-29,
19. *Doina Humelnicu* –A comparative study on bioaccumulation of uranyl ion son several microbiological collectors, *Ann. St. Univ. Al. I. Cuza Iasi*, tom X, nr.2 iul-dec. (2002)175-178
20. K. Popa, Al. Cecal, G. Drochioiu, A. Pui, *Doina Humelnicu* –*Saccharomyces cerevisiae* as uranium bioaccumulating material: the influence of contact time, pH and anion nature– *Nukleonika*, **48**(3), (2003) 121-125,
21. *Doina Humelnicu* – On retention of the  $UO_2^{2+}$  and  $Th^{4+}$  ions on chitosan- *Ann. St. Univ.Al. I. Cuza Iasi*, tom. XI, (2003)23
22. *Doina Humelnicu*, D.G. Cozma, I. Humelnicu – Studiul sistemului  $UO_2^{2+}$  - acid 4-amino-naftalen 1,5–disulfonic în solutie, *Rev. Chim. Bucharest*, **54** (9), (2003)759,
23. *Doina Humelnicu*, G. Drochioiu, K. Popa – Bioaccumulation of Thorium and Uranyl ions on *Saccharomyces Cerevisiae* - *J. Radioanal. Nucl. Chem.*, **260**(2), (2004), 291-293 (ISI – 0,502)
24. K. Popa, Al. Cecal, *Doina Humelnicu*, I. Caraus, C. L. Draghici – Removal of  $^{60}Co^{2+}$  and  $^{137}Cs^+$  from low radioactive solutions using *Azolla caroliniana* Willd. Water fern- *Central European Journal of Chemistry*, **2**(3), (2004), 434-445
25. D. Ganju, D. Bontea, *Doina Humelnicu*, G. Singurelu – Coordinating compounds immobilized on cellulose supports – *Materiale plastice*, **41**(4), (2004)250
26. D.Ganju, D. Bontea, *Doina Humelnicu*, Gh. Singurelu - Compusi coordinativi imobilizati pe suporturi celulozice – *Rev. Chim. Bucharest*, **56**(4), (2005)444-445,
27. D. Bontea, Carmen Mita, *Doina Humelnicu* – Removal of uranyl ions from wastewaters using cellulose and modified cellulose materials – *J. Radioanal. Nucl. Chem.*, **268** (2006)305-311
28. K. Popa, M.N. Palamaru, A.R. Iordan, *Doina Humelnicu*, G. Drochioiu, Al. Cecal – Laboratory analyses of  $^{60}Co^{2+}$ ,  $^{65}Zn^{2+}$  and  $^{55+59}Fe^{2+}$  radiocations uptake by *Lemna minor* – *I. Environm. Health Studies*, **42**(1), (2006)87-95
29. *Doina Humelnicu*, Ionel Humelnicu, Danut-Gabriel Cozma - Study of the  $UO_2^{2+}$  - acid-2-amino-1-naphtalen sulphonic (ANS) system in solution, *Rev. Roum. Chim.* **51**(2), (2006)109-115
30. *Doina Humelnicu*, K. Popa and Al. Cecal – Sorption of U(VI) on a callovo-oxfordian clay, *Ann. St. Univ. Al.I. Cuza Iasi*, Tom XIV, (2006)7-12
31. *Doina Humelnicu*, G. Drochioiu, M.I. Sturza, K. Popa and Al. Cecal - Kinetic and thermodynamic aspects of U(VI) and Th(IV) sorption on a zeolitic volcanic tuff, *J. Radioanal. Nucl. Chem.*, **207**(3), (2006)637-640

32. Evelini Popovici, *Doina Humelnicu*, Claudia Hristodor - Removal of  $\text{UO}_2^{2+}$  ions from simulated wastewater onto Romanian aluminium pillared clays, *Rev. Chim. Bucharest*, **57(7)**, (2006)675-678
33. K. Popa, *Doina Humelnicu*, M. Raileanu, Rodica Calmoi, Al. Cecal – On the depollution of some radioactive effluents, *Studia Universitatis Babes Bolyai, Chemia*, LI, **2**, (2006)119-123
34. M. E. Raileanu, M.I. Raileanu, *Doina Humelnicu*, G. Barbir, Al. Cecal – A geochemical study on the U(VI)/U(IV) ratio in the Romanian uranium ores, *Ann. St. Univ. Al.I. Cuza Iasi*, Tom XV, (2007)41-50,
35. A. Pui, *Doina Humelnicu*, I. Humelnicu, C. Tanase - Synthesis of some complexes of dioxouranium(VI) with di-halogeno-tetra-methyl salen ligands - *Rev. Roum. Chim.*, **53(3)**, (2008) 177-182
36. G. Drochioiu, K. Popa, *Doina Humelnicu*, M. Murariu, I. Sandu, Al. Cecal - Comparison of various sensitive and selective spectrophotometric assays of environmental cyanide, *Toxicological & Environmental Chemistry*, **90(2)**, (2008) 221-235
37. R. Tykva, K. Popa, E. Podracka, *Doina Humelnicu* –  $^{226}\text{Ra}$  translocation from soil to selected vegetation in the Crucea (Romania) uranium mining area, *J. Radioanal. Nucl. Chem.*, **278(1)**, (2008), 211-213
38. Al. Cecal, A.I. Cecal, *D. Humelnicu*, W. Endler, C. Draghici – Environmental Management Implemented in German Universities, *Bull. of the Transilvania University of Brasov*, Vol. I(50), Series I, (2008)203-206,
39. T. Malutan, A. Pui, C. Malutan, Lucia Tataru, *Doina Humelnicu* – A fluorescence emission, FT-IR and UV-Vis absorption study of the some uranium (VI) Schiff bases complexes, *J. Fluorescence*, **18(3-4)**, (2008)707-713,
40. *Doina Humelnicu*, R.I. Olariu, Al. Cecal, - Recovery of some inorganic compounds from the sludges resulted after the leaching of uranyl ions from uranium ores *Environmental Engineering and Management Journal*, **7(4)**, (2008)401-407
41. *Doina Humelnicu*, Romeo-Iulian Olariu, Ion Sandu, Andrei Victor Sandu, Nicolae Apostolescu, Cecilia Arsene - New heteropolyoxotungstates and heteropolyoxomolybdates containing radioactive ions (uranyl and thorium) in their structure., *Rev. Chim. Bucharest*, **59(8)**, (2008)920-925
42. Romeo-Iulian Olariu, *Doina Humelnicu*, Cecilia Arsene, Ion Sandu, Gabriela Carja - Synthesis and chemical characterization of new derivative complexes from  $\text{UO}_2^{2+}$  and  $\text{Th}^{4+}$  ions with the (iso)polioxomolybdate and (iso)polioxotungstate clusters, *Rev. Chim. Bucharest*, **59(9)**, (2008)1052-1056
43. *Doina Humelnicu* – Removal of Thorium ions from simulated wastewaters onto Callovo Oxfordian clay, *Ann. St. Univ. Al.I. Cuza Iasi*, Seria Chimie, Tom XVI, (2008)77-84
44. *Doina Humelnicu*, Evelini Popovici, Carmen Mita, Emiliana Dvininov - Study on the retention of uranyl ions on modified clays with titanium oxide, *J. Radioanal. Nucl. Chem.*, **279(1)**, 2009(131-136)
45. Romeo-Iulian Olariu, *Doina Humelnicu*, Ion Sandu, Ionel Humelnicu, Cecilia Arsene - Physico-chemical characterization of a new silica-polyoxometalate thermally modified unit, *Rev. Chim. Bucharest*, **60(11)**, 2009(1216-1219)

46. Doina Humelnicu, Romeo-Iulian Olariu, Ion Sandu, Ionel Humelnicu, Andrei Victor Sandu, Cecilia Arsene - Studies on chemical interferences on uranium (VI) and thorium (VI) reaction with (iso)polioxometalates, *Rev. Chim. Bucharest*, **60(12)**, 2009(1264-1269)
47. Doina Humelnicu, Romeo-Iulian Olariu, Cecilia Arsene, Ionel Humelnicu - Synthesis and characterization of some isopolyoxomolybdates with  $\text{UO}_2^{2+}$  and  $\text{Th}^{4+}$  ions, *Ovidius University Annals of Chemistry*, **20(2)**, 2009 (227-231)
48. Doina Humelnicu, Laura Bulgariu, Matei Macoveanu - On the retention of uranyl and thorium ions from radioactive solutions on peat moss, *J. Haz. Mater.*, **174**, 2010(782-787)
49. R.I. Olariu, Cecilia Arsene, Doina Humelnicu, M. Duncianu, Dorina Mantu, Investigation on environmental radionuclide retention on heteropolioxometallic sorbents for radionuclide analysis by ionic chromatography, *International Journal of Conservation Science*, **1(4)**, 2010: 248
50. Doina Humelnicu, Cecilia Arsene, Bety Burgehele, Mihaela Bertescu, Ionel Humelnicu, Ion Sandu, Dorina Mantu, Romeo-Iulian Olariu - Interaction of Actinide Cations with Heteropolyoxotungstate Ions  $[\text{SiW}_{11}\text{O}_{39}]^{8-}$  and  $[\text{SiW}_{12}\text{O}_{40}]^4$ , *Rev. Chim. Buc* **61(9)**, 2010(841-844)
51. Doina Humelnicu, Romeo Iulian Olariu, Cecilia Arsene, Mihaela Bertescu, Bety Denissa Burgehele - A comparative study on the removal of uranyl ions from artificially enriched radioactive waters using clays from Romanian, *Analele Sci. Univ. seria Geology*, **Tom LVI, nr. 1**, 2010(85-93)
52. Al. Cecal, Doina Humelnicu, K. Popa - The effect of  $\alpha$  radiolysis on the U(IV)/U(VI) ratio in uranium-bearing ores, *Rev. Roum. Chim.*, **55(11-12)**, 2010 (979-982) 53. Doina Humelnicu, Maria Valentina Dinu, Ecaterina Stela Drăgan - Adsorption characteristics of  $\text{UO}_2^{2+}$  and  $\text{Th}^{4+}$  ions from simulated radioactive solutions onto chitosan/clinoptilolite sorbents., *J. Hazardous Materials*, **185**, 2011(447-455),
54. A. Pui, Th. Malutan, Lucia Tataru, Corina Malutan, Doina Humelnicu, Gabriela Carja - New complexes of lanthanide Ln(III), (Ln = La, Sm, Gd, Er) with Schiff bases derived from 2-furaldehyde and phenylenediamines, *Polyhedron*, **30**, 2011(2127-2131)
55. R.I. Olariu, Cecilia Arsene, Doina Humelnicu, Viorica Vasilache, Solid-phase extraction and spectrophotometric determination of ultratrace thorium (IV) in water samples, *International Journal of Criminal Investigation*, **1(1)**, 2011(25-30)
56. Doina Hritcu, Doina Humelnicu, Gianina Dodi, M.I. Popa - Magnetic chitosan composite particles: evaluation of thorium and uranyl ion adsorption from aqueous solutions, *Carbohydrate Polym.*, **87(2)**, 2012(1185-1191)
57. A. Cecal, Doina Humelnicu, V. Rudic, Liliana Cepoi, D. Ganju, Angela Cojocari - Uptake of uranyl ions from uranium ores and sludges by means of *Spirulina platensis*, *Porphyridium cruentum* and *Nostok linckia* alga, *Bioresource Tehnology*, **118**, 2012(19-23)
58. A. Cecal, Doina Humelnicu, V. Rudic, Liliana Cepoi, Angela Cojocari - Removal of uranyl ions from  $\text{UO}_2(\text{NO}_3)_2$  solution by means of *Chlorella vulgaris* and *Dunaliella salinas* alga, *CEJC*, **10(5)**, 2012 (1669-1675)
59. Ioana-Carmen Popescu, Petru Filip, Doina Humelnicu, Ionel Humelnicu, Thomas Bleigh Scott, Richard Andrew Crane - Removal of uranium (VI) from aqueous

- systems by nanoscale zero-valent iron particles suspended in carboxy-methyl cellulose, *J Nucl Mater*, **443**, 2013 (250-255)
60. A. Cecal, Doina Humelnicu - Microelements Recovery from Uranium Sludge by Precipitation as Hydroxides, *Rev. Chim. Bucharest*, **64**(10), 2013 (1131-1134)
61. Doina Humelnicu, C. Blegescu, D. Ganju - Removal of uranium (VI) and thorium (IV) ions from aqueous solutions by functionalized silica: kinetic and thermodynamic studies, *J Radioanal Nucl Chem* DOI: 10.1007/s10967-013-2873-4

#### Lista cartilor publicate

1. D. Cozma, M. Goanta, Doina Humelnicu, C. Mata, A. Pui - Exercitii si probleme de Chimie anorganica - Editura Universitatii, Iasi, 1996, 248 pag.,
2. I. Berdan, M. Goanta, C. Mata, Doina Humelnicu -Lucrari practice de chimia nemetalelor -Editura Universitatii, Iasi, 1998, 131 pag.
3. Doina Humelnicu – Introducere in Chimia Anorganica, Editura Universitatii, Iasi, 2002, 208 pag., ISBN: 973-8243-35-1,
4. M.N. Palamaru, A.F. Popa, C. Mata, M. Goanta, Doina Humelnicu, N. Cornei – Bazele chimiei anorganice – Lucrari practice si aplicatii” Ed. Univ. Al.I. Cuza Iasi, 2003, 281 pag.,
5. Doina Humelnicu, N. Cornei – Probleme de chimie anorganica, Ed. Tehnopress, Iasi, 2004, 116 pag., ISBN-973-8377-88-9,
6. K. Popa, Doina Humelnicu, Al. Cecal – Radioactivitatea mediului inconjurator, Ed. Matrixrom, Bucuresti, 2005, 225 pag. ISBN – 973-685-879-0,
7. N. Cornei, Doina Humelnicu – Exerciții și probleme de chimie anorganică, Ed. Performantica, Iași, 2010, 141 pag., ISBN- 978-973-730-685-2,
8. Doina Humelnicu, Al. Cecal – Introducere in Chimie nucleara, Ed. Tehnopress, Iasi, 2013, 280 pag, ISBN – 978-973-702-989-8,

Conf. Dr. Doina Humelnicu

