

MU_FSCI_CHEM_INOR_DATA_Ahmed .Donia

Name : Ahmed M.Donia

Date and place of birth : 1955- Tanta - Egypt

Nationality : Egyptian

Education and scientific degrees :

1977 B.Sc. special degree in chemistry (Grade - Excellent) Tanta University

1982 M.Sc. Inorganic Chemistry - Menoufia University

1986 Ph. D. Inorganic/ Physical Chemistry - Menoufia University.

Work places :

Faculty of Science, Menoufia University (1978-)

Sana'a University Yeman (1992-1994)

Main fields of interest :

- Preparation and structural investigation of metal complexes.
- Thermal behaviour and thermochromic properties of organic /inorganic compounds.
- Preparation and investigation of ceramic materials with good catalytic and electrical properties via thermal decomposition of coprecipitated oxalate.
- Preparation of metal chelating resins and their uses in the recovery of precious elements and separation of heavy metal ions from aqueous solution.
- Preparation and investigation of clay metal oxide (especially magnetic oxides) containing resins and their uses in removal of pollutants.
- Preparation of magnetic silica for removal of pollutants.

Awards:

* Menoufia University's prize for distinguished researchs.

* Certificate from International Centre for Diffraction Data on significant contribution to the powder diffraction file set.- 42

Number of publications: (59)

Reviews:

One review on : Thermal Stability of Transition Metal Complexes. Ahmed M. Dania
Thermochim. Acta, 320 (1998) 187.

Activities:

I hold a visiting professor position (Sept. 1995-Mar. 1996) in Toledo University, Ohio USA on collaboration with Prof. D. Dollimore - attendance of a lot number of national and international conferences on chemistry and its applications - supervisor on (18) M. Sc. and (6) Ph.D. Thesis in inorganic/physical chemistry - a reviewer in a number of international journals.

Present position and postal address:

Professor of inorganic chemistry, department of chemistry, faculty of science, Menoufia University, Egypt.

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List of publications

- 1) Preparation of highly insulating dimeric and polymeric metal complexes with higher thermal stability in the solid state. **A.M. Donia** and H.A. El-Boraey, *J. Anal. Appl. Pyrolysis*, 63 (2002) 69.
- 2) Thermal investigation of iron(III) and manganese(II, III) complexes of dianils derived from 6-formylhellin, synthesis, characterization. **A.M. Donia**, H.A. El-Boraey and M.F. El-Samalehy, *J. Therm. Anal. Cal.*, 73 (2003) 987.
- 3) Synthesis of amine and thio chelating resins and study of their interaction with zinc(II), cadmium(II) and mercury(II) ions in their aqueous solutions. A.A. Atia, **A.M. Donia** and A.M. Yousif, *React. Funct. Polym.*, 56 (2003) 75.
- 4) Studies on uptake behaviour of copper(II) and lead(II) by amine chelating resins with different textural properties. A.A. Atia, **A.M. Donia** and S.A. Abou-El-Enein, A.M. Yousif, *Sep. Purif. Technol.*, 33 (2003) 295.
- 5) Gold(III) recovery using synthetic chelating resins with amine, thio and amine/mercaptan functionalities. **A.M. Donia**, A.A. Atia and K.Z. Elwakeel, *Sep. Purif. Technol.*, 42 (2005) 111.
- 6) Adsorption behaviour of non-transition metal ions on a synthetic chelating resin bearing iminoacetate functions. A.A. Atia, **A.M. Donia** and K.Z. ELwakeel, *Sep. Purif. Technol.*, 43 (2005) 43.

- 7) Comparative study on the recovery of silver(I) from aqueous solutions using different chelating resins derived from glycidyl methacrylate A.A. Atia, A.M. Donia and A.M. Yousif, *J. Appl. Polym. Sci* , 97 (2005) 806.
- 8) Preparation, characterization and thermal investigation of polymeric and monomeric binuclear complexes of dianils derived from 6-formylkhellin with cobalt(II), nickel(II) and copper(II). H.A. El-Boraey, **A.M. Donia** and M.F. El-Samalehy, *J. Anal. Appl. Pyrolysis*, 73 (2005) 204.
- 9) Selective separation of mercury (II) using a synthetic resin containing amine and mercaptan as chelating groups. A.A. Atia, **A.M. Donia** and K.Z. Elwakeel, *React. Funct. Polym.*, 65 (2005) 267.
- 10) Studies on the uptake behavior of a magnetic Co₃O₄-containing resin for Ni(II), Cu(II) and Hg(II) from their aqueous solutions. A.A. Atia, **A.M. Donia** and A.E. Shain, *Sep. Purif. Technol.*, 46 (2005) 208.
- 11) Adsorption of Ag(I) on glycidyl methacrylate/N,N'-methylene bis-acrylamide chelating resins with embedded iron oxide. **A.M. Donia**, A.A. Atia, H.A. El-Boraey and D.H. Mabrouk, *Sep. Purif. Technol.*, 48 (2006) 281.
- 12) Uptake studies of copper(II) on glycidyl methacrylate chelating resin containing Fe₂O₃ particles. **A.M. Donia**, A.A. Atia, H.A. El-Boraey and D.H. Mabrouk, *Sep. Purif. Technol.*, 49 (2006) 64.
- 13) Effect of chain length of aliphatic amines immobilized on a magnetic glycidyl methacrylate resin towards the uptake behavior of Hg(II) from aqueous solutions. A.A. Atia, **A.M. Donia**, S.A. Abou-El-Enein and A.M. Yousif, *Sep. Sci. Technol.* 42 (2007) 403-420.

- 14) Recovery of gold(III) and silver(I) on a chemically modified chitosan with magnetic properties. **A.M. Donia**, A.A. Atia and K.Z. Elwakeel, *Hydrometallurgy* 87 (2007) 197-206.
- 15) Selective separation of Mercury(II) using magnetic chitosan resin modified with Schiff's base derived from thiourea and glutaraldehyde, **A.M. Donia**, A.A. Atia and K.Z. Elwakeel, *J. Hazard. Mater.*, in press (2007), accepted in may 2007.
- 16) Efficient removal of Hg(II) using magnetic chelating resin derived from copolymerization of bithiourea/thiourea/glutaraldehyde, **A.M. Donia**, A.A. Atia and A.M. Heniesh, *Sep. Purif. Technol.*, in press (2007), accepted in July 2007.
- 17) Removal of some dangerous heavy metals from aqueous solution using magnetic chelating resin with iminodiacetate functionality, A.A. Atia, **A.M. Donia** and Ahmed M. Yousif, *Sep. Purif. Technol.*, in press (2007), Accepted in October 2007
- 18) Effect of crosslinking type on the uptake behavior of oxime chelating resins towards Hg(II), A.A. Atia, **A.M. Donia** and H.H. El-Nomany, *dispersion science and technology* (2007) in press. Accepted in November 2007
- 19) Effect of crosslinker type and embedded magnetite on the uptake behaviour of amine containing glycidyl methacrylate resins towards iron(III), AA. Atia, **A.M. Donia** and M.M. El-Hawary, *Sep. Sci. Technol.*, (2007) in press, accepted in September (2007).
- 20) Synthesis of magnetic chelating resins functionalized with tetraethylenepentamine for adsorption of molybdate anions from aqueous

solutions, A.A. Atia, **A.M. Donia**□ and H.A. Awed, *J. Hazard. Mater.* (2007)
in press, accepted in October 2007.

- 21) Effect of amine type modifier on the uptake behaviour of silica towards mercury(II) in aqueous solution, A.A. Atia, **A.M. Donia**□ and W.A. Al-amrani, *desalination*, Submitted for publication.
- 22) Effect of structural properties of acidic dyes on their adsorption behaviour from aqueous solutions by amine modified silica, **A. M. Donia**, A. A. Atia, W. A. Al-amrani and A. M. El-Nahas, Submitted for publication.
- 23) Removal of uranium(VI) from aqueous solutions using glycidyl methacrylate chelating resins, A. M Donia, A. A Atia, E. M Moussa; A. M El-Sherif; M. O AbdEl-mageed, Submitted for publication.