

Curriculum Vitae

First name: Seyed Abolghasem Last name: kahani

Born: Nov. 1964 / Nishabour / IRAN.

Email: Kahani@kashanu.ac.ir

Tel: +98 2177878839 Mobile: +98 913-3611808

Education:

BSc. (Chemistry)-Urmia University (1988).

MSc. (Inorganic chemistry)-Ferdowsi University of mashhad (1991).

Ph.D. (Inorganic Chemistry)-Tehran University (2001)

Dissertation topic:

"Synthesis of new Silver(III) and Gold (III) complexes

Researches and Developments:

- 1. Metal complexes in high oxidation state
- 2. Thermochromism and thermocoductivity
- 3. Magnetic nanoparticle
- 4. Electrophotography and toner characterization
- 5. Mechanochemical reactions
- 6. Inorganic polymers

Publications:

1. Deposition of Magnetite Nanoparticles in Activated Carbons and Preparation of Magnetic Activated Carbons

S. A. Kahani, M. Hamadanian, and O. Vandadi Department of Chemistry, University of Kashan, 87317-51167 Kashan, Iran AIP Conf. Proc. **929**, 183 (2007)

2. A New Method of Preparation of Magnetite Nanoparticles from Iron Oxide Hydroxide

S. A. Kahani and M. Jafari

Department of Chemistry, University of Kashan, 87317-51167 Kashan, Iran

AIP Conf. Proc. 929, 177 (2007)

3. Synthesis of silver(III) aminomethylpyridine complexes from silver nitrate and aminomethylpyridines

Kahani A.¹; Abedini M.¹; Farnia M.¹ Transition Metal Chemistry, Volume 25, Number 6, December 2000, pp. 711-714(4)

4. SYNTHESIS OF NEW PYRIDINE SILVER(III) COMPLEXES

Authors: A. Kahani a; M. Abedini a; M. Farnia a

Journal of Coordination Chemistry, Volume 53, Issue 1 March 2001, pages 1 - 6

5. A Synthesis of a silver(III) diethyldithiocarbamato complex

Abedini, M; Farnia, M; Kahani,

JOURNAL OF COORDINATION CHEMISTRY, 50(1), 2000, pp. 39 - 42

6. A new method for preparation of magnetite from iron oxyhydroxide or iron oxide and ferrous salt in aqueous solution

S.A.Kahani _, M.Jafari

Department of Chemistry, Faculty of Science, University of Kashan, Kashan 87317-51167, Islamic Republic of Iran

Journal of Magnetism and Magnetic Materials, 321 (2009) 1951.

7. The Mechanochemical Oxidation of Thiocyanate to Polythiocyanogen (SCN)n Using Peroxydisulphate

S. A. Kahani and M. Sabeti

J Inorg Organomet Polym (2011) 21:458-464

- 8. The comparison of chemical synthesis magnetite nanoparticles with particle size of biosynthesis Fe₃O₄ by magnetotactic bacteria
- S. A. Kahani and Z. Yaghini

9. The comparison of chemical synthesis magnetite nanoparticles with particle size of biosynthesis Fe_3O_4 by magnetotactic bacteria

S. A. Kahani* and Z. Yagini

Bioinorganic Reaction Mechanisms (BIRM) Y • 12 In press.

Patents:

1. Preparation of terphetalic acid and ethylene glycol form the PET waste

S. A. Kahani

Department of Chemistry university of kashan, Kashan, Iran

Iranian trademark and patent office Patent No. 39950

2. Preparation of PET fiber from the PET waste by superheat steam

S. A. Kahani

Department of Chemistry university of kashan, Kashan, Iran

Iranian Trademark and Patent Office Patent No. 39949

3. Electrical conductivity of nickel compound with temperature

S. A. Kahani and M. Zamani

Department of Chemistry university of kashan, Kashan, Iran

Iranian Trademark and Patent Office Patent No. 37901

4. Electrical conductivity of Copper compound with temperature

S. A. Kahani and M. Zamani

Department of Chemistry university of kashan, Kashan, Iran

Iranian Trademark and Patent Office Patent No. 37895

Seminar lectures

1.Oxidation of ammonia to dinitrogen by peroxydisulfate in aqueous solution and coordinated to silver in high oxidation state

Abolghasem Kahani*

Department of Chemistry University of Kashan, Kashan, Iran.

6th Iranian Inorganic chemistry seminar Ferdowsi university 7-8 nov. 2001

2. SYNTHESIS OF AMINOPYRIDINE SILVER(III) COMPLEXES FROM SILVER NITRATE AND HETEROCYCLIC LIGAND BY PEROXYDISULPHATE IN SOILD PHASE

Seyed Abolghasem Kahani* and Mohammad Taghi Yousefi

Department of chemistry University of Kashan, Kashan, Iran.

14th Iranian Chemistry & Chemical Engineering Congress 17-19 February 2004 University of Tarbiat Moalem

3. A new method in preparation of Fe₃O₄ and magnetic separation of fatty acid from volatile fraction of oxidized Bitumen

Seyed Abolghasem Kahani* and Mohsen Jafari Address: Department of Chemistry, University of Kashan, Kashan, Iran. **14th Iranian Chemistry & Chemical Engineering Congress** 17-19 February 2004 University of Tarbiat Moalem

4. Office Wastepaper Recycling

S. A. Kahani¹ and M. Habibian²

¹Department of Chemistry, University of Kashan, Kashan, Iran.

²Department of Chemical Engineering, Iran University of Science and Technology.

2nd National Seminar of chemistry and Environment 27-29 Jun. 2004

Department of Chemistry University of Isfahan

5. SYNTHESIS OF SILVER(II) COMPLEXES FROM SILVER NITRATE AND HETEROCYCLIC LIGAND BY PEROXYDISULPHATE IN SOILD PHASE

Seyed Abolghasem Kahani* and Mohammad Taghi Yousefi

Department of chemistry University of Kashan, Kashan, Iran

9th Iranian Inorganic Chemistry Conference 7-8 March 2007 Semnan University Department of Chemistry

6. Mechanochemical Synthesis of bis(dimethylglyoximato)nickel(II) complex

A. Kahani* and M. Jafari

Department of Chemistry University of Kashan, Kashan, Iran

9th Iranian Inorganic Chemistry Conference 7-8 March 2007 Semnan University Department of Chemistry

7. Extraction of Gold from Cyanide Solution by Magnetic Activated Carbon

Seyed Abolghasem Kahani* and Omid Vandadi

Address: Department of chemistry University of Kashan, Kashan, Iran.

9th Iranian Inorganic Chemistry Conference 7-8 March 2007

Semnan University Department of Chemistry

8. Study of the Structure of Self-Assembled Monolayers films of n-alkanoic acids on the surfaces of CuO and AgO

S. A. Kahani* and M. T. Yousefi

Department of Chemistry university of kashan, Kashan, Iran.

1st Seminar on nanostructured material 2-3may 2004 Iran University of Science and Technology

9. Review of Oxidized Asphalt

Seyed Abolghasem Kahani

Department of Chemistry University of Kashan, Kashan, Iran

1th Iranian Roofining seminar 17 October 2001 mashhad

10. Application of Microwave Dielectric Heating Effects to Synthetic Chemistry

Seyed Abolghasem Kahani

Department of Chemistry, Faculty of Science, University of Kashan, Kashan, Iran.

1th Chemistry Seminar Payam Noor university 23–24 December 2001

11. Mechanochemical synthesis of Thermochromic compounds AgHgI4 and Cu2HgI4

S. A. Kahani* and A. rajabi

Department of Chemistry university of kashan, Kashan, Iran.

10th Iranian Inorganic Chemistry Conference 7-8 May 2008

Sistan Bluchestan University Department of Chemistry

12. A new method in preparation of CoFe₂O₄ from goetite

S. A. Kahani* and Z. Yaghini

10th Iranian Inorganic Chemistry Conference 7-8 May 2008

Sistan Bluchestan University Department of Chemistry

13. Mechanochemical synthesis of Thermochromism compounds propylammonium and Butylammonium tetrachlorocuperute

S. A. Kahani* and Z. Yaghini

Department of Chemistry university of kashan, Kashan, Iran

10th Iranian Inorganic Chemistry Conference 7-8 May 2008

Sistan Bluchestan University Department of Chemistry

14. The electrochemical study of mononuclear Silver(III) aminomethylpyridine complexes in sulfuric and chloric acid solution

S. A. Kahani

Department of Chemistry university of kashan, Kashan, Iran

1 Yth Iranian Seminar of Analytical Chemistry, University of Kashan

15. Synthesis of magnetite nanoparticles from ferrous salts in amine solution at room temperature

M. Shahrokh and S. A. Kahani

Department of Chemistry university of kashan, Kashan, Iran

15 th Iranian Chemistry Congress, Bu-Ali Sina University

16. Synthesis of maghemite nanoparticles from ferrous salts in ethylenediamine solution at room temperature

M. Shahrokh and S. A. Kahani

17th Iranian Inorganic Chemistry Razi University of Kemanshah

17. A new method in preparation of magnetic iron oxide and determination of domain

wall from magnetization curve in maghemite and magnetite nanoparticles M. Shahrokh and S. A. Kahani

Department of Chemistry university of kashan, Kashan, Iran

17th Iranian Inorganic Chemistry Razi University of Kemanshah

18. A novel method in estimating of domain walls in nickel metal nanoparticles

H. mollaie and S. A. Kahani

Department of Chemistry university of kashan, Kashan, Iran

17th Iranian Inorganic Chemistry Razi University of Kemanshah

19. Determination of size distributions from magnetization curve in magnetite nanoparticle

H. mollaie and S. A. Kahani

Department of Chemistry university of kashan, Kashan, Iran

17th Iranian Inorganic Chemistry Razi University of Kemanshah

20. Synthesis and characterization of nanocrystalline NiS by chemical reduction process

H. mollaie and S. A. Kahani

Department of Chemistry university of kashan, Kashan, Iran

¹ Yth Iranian Inorganic Chemistry Conference University of Guilan

21. Synthesis and characterization of Fe3O4 nanoparticles using diamine hydrate by chemical reduction route

H. mollaie and S. A. Kahani

Department of Chemistry university of kashan, Kashan, Iran

Yth Iranian Inorganic Chemistry Conference University of Guilan

22. Synthesis of maghemite nanoparticles from magnetite by mechanochemical method

F. Rahimi and S. A. Kahani

Department of Chemistry university of kashan, Kashan, Iran

Yth Iranian Inorganic Chemistry Conference University of Guilan

23. Synthesis of magnetite nanoparticles from ferrous salts in piperazine solution at room temperature

M. Shahrokh and S. A. Kahani

Department of Chemistry university of kashan, Kashan, Iran

17th Iranian Inorganic Chemistry Conference University of Guilan

24. Synthesis of nickel metal nanoparticles from nickel complex

H. mollaie and S. A. Kahani

Department of Chemistry university of kashan, Kashan, Iran

15 th Iranian Chemistry Congress, Bu-Ali Sina University

25. Synthesis and characterization of nanocrystalline nickel by chemical reduction process from amin- nickel complex

H. mollaie and S. A. Kahani

Department of Chemistry university of kashan, Kashan, Iran

15 th Iranian Chemistry Congress, Bu-Ali Sina University

26. Using of PET waste fibers in asphalt roofining

S. A. Kahani

Department of Chemistry university of kashan, Kashan, Iran

2 th national seminar of asphalt roofining, mashad February 2012

27. Magnetic separation of carboxylic acid hydrocarbons from volatile fraction of oxidized Asphalt

A. Kahani* and M. Jafari

Department of Chemistry university of kashan, Kashan, Iran

2th national seminar of asphalt roofining, mashad February 2012

Supervisor for Master of Science Students

1. Synthesis and charterization of silver(II), Complexes in solid state and oxidation od thiocyanate in presence of copper(II) catalysis

Supervisor: S. A Kahani Student: M. T. Yousefi July 2004

Department of Chemistry university of kashan, Kashan, Iran

2. A new method for preparation of magnetite and magnetic separation of fatty acid in oxidation process of hydrocarbons.

Supervisor: S. A Kahani Student: M. Jafari April 2005

Department of Chemistry university of kashan, Kashan, Iran

3. Doping of magnetic iron oxide in activated carbon and investigation of its properties

Supervisor: S. A Kahani Student: O. Vandadi March 2006

4. Determination of electrostatic charge of toners and identification its chemical composition

Supervisor: S. A Kahani Student: M. Norozi May 2005

Department of Chemistry university of kashan, Kashan, Iran

5. Preparation of new compounds from copper and nickel and investigation of its thermochromism properties

Supervisor: S. A Kahani Student: M. Zamani April 2006

Department of Chemistry university of kashan, Kashan, Iran

6. Preparation of thermochromism compounds from copper(I), silver(I) and mercury(II) and study of it's electrical Conductivity in Solid State

Supervisor: S. A. Kahani student: A. Rajabi

Department of Chemistry university of kashan, Kashan, Iran

7. Preparation of thermochromism compounds from Nickel (II) and Copper (II) with aliphatic amines in solid state

Supervisor: S. A. Kahani student: M. shahabi

Department of Chemistry university of kashan, Kashan, Iran

8. Direct reaction of iron, nickel, copper and zinc with donor sulfur and nitrogen ligands in solid phase and preparation of their complexes

Supervisor: S. A Kahani Student: F. Parto

Department of Chemistry university of kashan, Kashan, Iran

9. Preparation and characterization of polythiocyanogen in aqueous solution and in solid state

Supervisor: S. A Kahani Student: M. Sabeti June 2007

Department of Chemistry university of kashan, Kashan, Iran

10. A new method for preparation of magnetic iron oxide nanoparticle

Supervisor: S. A Kahani Student Z. Yaghini June 2008

Department of Chemistry university of kashan, Kashan, Iran

11. Synthesis and characterization of mixed-valence silver oxide nanoparticle

Supervisor: S. A Kahani Student: N. Sepahkar Jun 2010

Department of Chemistry university of kashan, Kashan, Iran

12. Synthesis and characterization of magnetite nanoparticles from ferrous salts in amines solution at room temperature and their applications

Supervisor: S. A Kahani Student: M. Shahrokh Jun 2010

Department of Chemistry university of kashan, Kashan, Iran

13. Synthesis of maghemite nanoparticles from magnetite by mechanochemical method

Supervisor: S. A Kahani Student: F. Rahimi Jun 2010 Department of Chemistry university of kashan, Kashan, Iran

14. Preparation and Characterization Copper Nanoparticles by Chemical Reduction of Copper(II) Complexes by Hydrazine

Supervisor: S. A Kahani Student: M. Shahrokh Jun 2010