

Name & Address



First Name: Seyed Ali Akbar

Last Name: Sajadi

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Professional Background

Assistant Professor	1997	Institute of Water and Energy, Sharif University of Technology, Tehran
Associate Professor	present	Institute of Water and Energy, Sharif University of Technology, Tehran

Educational Background

- **Master of Science, Inorganic Chemistry**
, University of Bern, Switzerland, 1992

Thesis: Lead and Manganese, Study of the Oxides

- **Ph.D., Inorganic Chemistry,**
University of Basel, Switzerland, 1997

Dissertation: Stability Constants of Nucleic Acids with Metal
Ions in Aqueous Solution.

Recognition

Distinguished Sharif University Researcher 2003

Research Interests

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|-------------------|--|
| Synthesis: | Synthesis of new Inorganic Materials |
| Analysis: | Analysis of Inorganic Materials using different Methods
such as Thermogravimetry, DSC, XRD, Electron
microscopy, Potentiometry, spectroscopy |

Courses Taught

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|-----------------------------------|--|
| General
Chemistry | <i>Introduction, General methods for Synthesis and
Analysis, Structure, Bonding etc.</i> |
| Inorganic
Chemistry I | <i>Synthesis and Analysis of Inorganic Materials, Bonding
Theories, Application of Analytical Methods in Inorganic
Chemistry</i> |
| Inorganic
Chemistry II | Structure, Group theory, Quantum Chemistry, Study of
Thermodynamic properties of Inorganic materials |

Advanced Inorganic Chemistry	Structure, advanced group theory, advanced quantum Chemistry, Study of Thermodynamic properties of Inorganic materials
Advanced Inorganic Photochemistry	Structure, Quantum Chemistry, Study of Thermodynamic properties of Inorganic materials, excited states, vibrational states
New Trends & Technologies in Inorganic Chemistry	New Materials, Nano-technology
Bio-Inorganic Chemistry	Biological Drugs, Amino Acids, New Cancer Chemo-Therapy
Industrial Inorganic Chemistry	Modern Technologies, New Materials, Bio-leaching

Publications

a) International Journals:

1) STABILITIES OF METAL ION COMPLEXES OF ADENOSINE 5-DIPHOSPHATE (ADP³⁻) AND URIDINE 5-DIPHOSPHATE (UDP³⁻).

S. Ali A. Sajadi, Matthias Bastian, Helmut Sigel.

J. Inorg. Biochem. 59(2,3) (1995) 139.

2) STABILITY OF METAL ION COMPLEXES FORMED WITH METHYL PHOSPHATE AND HYDROGEN PHOSPHATE.

A. Saha, N. Saha, L. Ji, J. Zhao, F. Gregan, **S. A. A. Sajadi**, B. Song, H. Sigel.

J. Bioinorg. Chem. 1 (1996) 231-238.

3) TERNARY COMPLEXES IN SOLUTION: INTRAMOLECULAR HYDROPHOBIC AND STACKING INTERACTIONS IN MIXED LIGAND COMPLEXES FORMED

BY COPPER (II) 2,2-BIPYRIDYL OR 1,10-PHENANTHROLINE, AND n-BUTYL DIPHOSPHATE (BuDP³⁻) OR PHENYL DIPHOSPHATE (PhDP³⁻).

S.Ali A. Sajadi, Bin Song, Fridrich Gregan, and Helmut Sigel.

Bull. Chem. Soc. Ethiop. 11(2) (1997) 121-130.

4) STABILITY OF BINARY AND TERNARY COPPER (II) COMPLEXES OF THE DIPHOSPHATE ANALOGUE, METHYLPHOSPHONYLPHOSPHATE, IN AQUEOUS SOLUTION.

Bin Song, **S. Ali A. Sajadi**, Fridrich Gregan, Nadja Pronayova, Helmut Sigel

Inorg. Chim. Acta 273 (1998) 101-105.

5) TERNARY COMPLEXES IN SOLUTION. INTRAMOLECULAR STACKING INTERACTIONS IN MIXED LIGAND COMPLEXES FORMED BY COPPER (II), 2,2-BIPYRIDYL OR 1,10-PHENANTHROLINE AND A PYRIMIDINE-NUCLEOSIDE 5-DIPHOSPHATE (CDP³⁻, UDP³⁻, dTDP³⁻).

S.Ali A. Sajadi, Bin Song, Helmut Sigel.

Inorg. Chim. Acta 283 (1998) 193-201.

6) INTRAMOLECULAR EQUILIBRIA IN COMPLEXES FORMED BETWEEN ADENOSINE 5-DIPHOSPHATE (ADP³⁻) AND Mg²⁺, Zn²⁺ or Cd²⁺ IN AQUEOUS SOLUTION.

Emanuela M. Bianchi, **S. Ali A. Sajadi**, Bin Song, Helmut Sigel.

FOURTH EUROPEAN BIOLOGICAL INORGANIC CHEMISTRY CONFERENCE Abstract (1998) MM-42.

7) COMPARISON OF THE METAL ION-BINDING PROPERTIES OF ADENOSINE 5-DIPHOSPHATE (ADP³⁻) AND GUANOSINE 5-DIPHOSPHATE (GDP³⁻).

Emanuela M. Bianchi, **S. Ali A. Sajadi**, Helmut Sigel.

Chimia 52(9) (1998) 462.

8) INTRAMOLECULAR EQUILIBRIA IN COMPLEXES FORMED BETWEEN ADENOSINE 5-DIPHOSPHATE (ADP^{3-}) OR GUANOSINE 5-DIPHOSPHATE (GDP^{3-}) AND Mg^{2+} , Zn^{2+} or Cd^{2+} IN AQUEOUS SOLUTION.

Emanuela M. Bianchi, **S. Ali A. Sajadi**, Bin Song, Helmut Sigel.

COST D8 WORKING GROUP MEETING, Dortmund sep., Abstract (1998).

9) ACID-BASE AND METAL ION-COORDINATING PROPERTIES OF PYRIMIDINE-NUCLEOSIDE 5'-DIPHOSPHATES (CDP, UDP, dTDP) AND OF SEVERAL SIMPLE DIPHOSPHATE MONOESTERS. ESTABLISHMENT OF RELATIONS BETWEEN COMPLEX STABILITY AND DIPHOSPHATE BASICITY.

S. Ali A. Sajadi, Bin Song, Fridrich Gregan, Helmut Sigel.

Inorg. Chem. 38(3) (1999) 439-448.

10) METAL ION-BINDING PROPERTIES OF THE DIPHOSPHATE ESTER ANALOGUE, METHYLPHOSPHONYLPHOSPHATE, IN AQUEOUS SOLUTION.

Bin Song, Jing Zhao, Fridrich Gregan, Nadja Pronayova, **S, Ali A. Sajadi**, Helmut Sigel.

Metal Based Drugs 6 (6) (1999) 321-328.

11) INTRAMOLECULAR STACKING INTERACTIONS IN MIXED LIGAND COMPLEXES FORMED BY COPPER(II), 2,2-BIPYRIDINE OR 1,10-PHENANTHROLINE, AND MONO-PROTONATED OR DEPROTONATED ADENOSINE 5-DIPHOSPHATE (ADP^{3-}). EVALUATION OF ISOMERIC EQUILIBRIA.

Emanuela M. Bianchi, **S. Ali A. Sajadi**, Bin Song, Helmut Sigel.

Inorg. Chim. Acta 300 (2000) 487-498.

12) STABILITY AND STRUCTURE OF MIXED LIGAND COMPLEXES CONTAINING ADENOSINE 5-DIPHOSPHATE (ADP^{3-}) IN AQUEOUS SOLUTION

Emanuela M. Bianchi, **S. Ali A. Sajadi**, Bin Song, Helmut Sigel

34th International Conference on Coordination Chemistry Edinburgh 2000, the Royal Society of Chemistry ICC34 (2000).

13) Isomeric Equilibria in Aqueous Solution of Binary and Ternary Complexes Formed with Adenosine 5-Diphosphate (ADP^{3-}),

Emanuela M. Bianchi, **S. Ali A. Sajadi**, Bin Song, Helmut Sigel

5th EUROPEAN BIOLOGICAL INORGANIC CHEMISTRY CONFERENCE, TOULOUSE (France) (2000), EUROBIC-5 (2000).

14) Intramolecular Aromatic-ring Stacking in Mixed Ligand Cu^{2+} Complexes of 1,10-Phenanthroline (Phen) and Adenosine 5-Diphosphate (ADP^{3-}).

Emanuela M. Bianchi, **S. Ali A. Sajadi**, Bin Song, Helmut Sigel

Chimia 54, 7/8, (2000), 420.

15) Stabilities and Isomeric Equilibria in Aqueous Solution of Monomeric Metal Ion Complexes of Adenosine 5-Diphosphate (ADP^{3-}) in Comparison with Those of Adenosine 5-Monophosphate (AMP^{2-}).

Emanuela M. Bianchi, **S. Ali A. Sajadi**, Bin Song, Helmut Sigel

Chem. Eur. J. , 9 (4), (2003), 881.

16) Synthesis and Properties of Lead Oxide-Carbonate,

S. Ali A. Sajadi, A. A. Alamolhoda

Inorganic Materials , 42(10), (2006) 1-5.

17) Studing of Possible Remedies for Solving Environment Problems of Coal Spoil and Making Them Economical.

S. Ali A. Sajadi, M. R. Afshoon, A. A. Alamolhoda, S. J. Hashemian

5th International Conference on Environmental Informat, Kentucky. USA, (2006).

18) Study of Intramolecular Stacking Interactions in Mixed Ligand Complexes Formed by Cu(II) , 2,2-Bipyridine and dTDP^{3-}

S. Ali A. Sajadi, *7th Iranian Biophysical, July, (2006).*

19) Thermal Behavior of Alkaline Lead Carbonate, a Study of Thermogravimetry and Differential Scanning Calorimetry.

S. Ali A. Sajadi, A. A. Alamolhoda

Material Science, **2** (6)(2006).

20) An Investigation to the Structure and Thermal Properties of Lead Hydroxide.

S. Ali A. Sajadi, A. A. Alamolhoda, S. J. Hashemian

Scientia Iranica, **14**(2), (2007) 169-173.

21) Practical Methods for Preparation of Raw Materials for Aluminum Industry

S. Ali A. Sajadi, S. J. Hashemian

28th *International Conference on Science & Technology, Prague, Czech*, (2007).

22) Thermal Behavior of Lead Hydroxide, a Study of Thermogravimetry and Differential Scanning Calorimetry.

S. Ali A. Sajadi, *Inorgan. Chem. (IJ)*, **2** (1)(2007).

23) Thermal Behavior of β -PbO₂, a Study of Thermogravimetry and Differential Scanning Calorimetry.

S. Ali A. Sajadi, *Inorg. Chem. (IJ)*, **3** (2)(2008).

24) Thermal Behavior of Alkaline Lead Acetate, a Study of Thermogravimetry and Differential Calorimetry.

S. Ali A. Sajadi, A. A. Alamolhoda, S. J. Hashemian

Scientia Iranica, **15** (4) (2008) 435-439.

25) Preservation of Water Resources and Environment by Means of Doing Statistical Studies on Water Quality.

S. A. A. Sajadi, A. Nazari Alavi

6th *Internatinal Conference on Environmental Informatics*, (2007).

Environmental Informatics Archive (EIA) Thailand (2007).

26) Study of Thermal Behavior of α -PbO₂, using TGA and DSC.

S. Ali A. Sajadi, A. A. Alamolhoda, S. J. Hashemian

J. Therm. Anal. & Calorimetry, **92** (3) (2008) 917-920.

27) Surveying the Jagrood river's self - purification.

A. Nazari Alavi, M. Mirzai, **S. A. A. Sajadi**, A. A. Alamolhoda.

6th Internatinal Conference on Environmental Informatics, (2007).

Environmental Informatics Archive (EIA) Thailand (2007).

28) Separation of Useful Compound from Coal Waste Materials.

S. A. A. Sajadi, *Chem. & Environm. Res.*, **16** (3,4) (2007) 283-291.

29) Separation and Recovery of Manganese- and Cobalt Catalysts from Waste Ash of PTA Unit,

S. A. A. Sajadi, *Seventeenth International Conf. PFAMXVII Processing and Fabrication of Advanced Materials* (2008) New Delhi.

30) Alkaline Lead Acetate, an Investigation to the Morphology in Different Temperature Conditions.

S. Ali A. Sajadi, *J. Appl. Sci. Res.*, **4** (3) (2008) 278-281.

31) Study on Copper Ion Complex with Aspartic Acid

S. A. A. Sajadi, A.A. Alamolhoda, A. Nazari Alavi

29th International Conference on Science & Technology, Prague, Czech, (2009).

32) Study of Morphology of α -PbO₂ and Determination of Elementary Cell Constants.

S. A. A. Sajadi, *Inorg. Chem. (IJ)*, **3** (4)(2008).

33) Study on Copper Ion Complex with Aspartic Acid.

S. A. A. Sajadi, A.A. Alamolhoda, A. Nazari Alavi

29th *International Conference on Science & Technology, Prague, Czech, (2009).*

34) Separation and Recovery of Cobalt Catalyst from Wastewater of PTA Unit.

S.A.A.**Sajadi**, A. Abdolahifar, M. Jafarbegloo

Reviews in Inorganic Chemistry, 29 (3), (2009).

35) Study on Copper Ion Complex with Aspartic Acid.

S.A.A.Sajadi, A.A. Alamolhoda, A. Nazari

29th Internatinal Conf. on Scie. & Tech., Prague, Czech Republic, July 9-10, (2009).

36) Interaction Between Zn Ion and Aspartic Acid and Related Compounds, a Comparative Investigation.

S.A.A.Sajadi, A. Nazari, M. Mirzai

PFAM 18 Conference, Sendai, Japan, Dec. 12-14, (2009).

37) Biodegradability of Aqueous Phase Effluents of Cutting Oil in UASB Reactor.

A. Nazari, S.A.A.Sajadi

Makassar Intern. Conf. on Civil Enineering, Makasser, Indonesia, (2009).

38) Investigation of Heavy Metals Containing Acidic Waste Water from Coal Mine.

S.A.A.Sajadi, *2th Internatinal Conf. on Bioinform & Biomed. Engin. Chengdu, China, (2009).*

39) Metal Ion Binding Properties of L-Glutamic Acid and L-Aspartic, a Comparative Investigation.

S.A.A.**Sajadi**, *Natural Science, 2 (2) (2010) 85-90.*

40) Stabilities of Metal Ion Complexes of Glutamic Acid in Aqueous Solution.

S.A.A.**Sajadi**, *Chemistry (AIJ), 29 (3), (2010).*

41) A Comparative Investigation of Interaction Between Metal Ions with L-Methionene and Related Compounds Such as Alanine, Leucine, Valine, and Glycine in Aqueous Solution.

S.A.A.Sajadi, *Biosciences*, (2010).

42) Study on Interactions of Divalent Metal Ions with Aspartic Acid in Binary Complexes.

S.A.A.Sajadi, *Reviews in Inorganic Chemistry*, **30** (3), (2010).

43) Metal Ion Absorption- and Transportation Properties of Aspartic Acid in the Body.

S.A.A.Sajadi, A.A. Alamolhoda

2nd Intern. Conf. on Drug Discovery & Therapy, Dubai, UAE, Feb. 1-4, (2010).

44) A Comparative Investigation of Interaction Between Mn and Zn Ions and Glutamic Acid and Related Compounds.

S.A.A.Sajadi, M.Mirzai, *30th Internatinal Conf. on Scie. & Tech., Budapest, Hungary*, Aug. 5-6, (2010).

45) Water Quality Analysis, An Investigation for Preservation of Environment and Water Resources.

S.A.A.Sajadi, , A. Nazari, M. Vasfi, E. Honarvar

Intern. Conf. on Emerging Technologies in Environmental Science and Engineering, Aligarh, India, . Mar. 9-10, (2010).

46) A Comparative Investigation of Interaction Between Co^{2+} , Cu^{2+} , and Zn^{2+} Ions with L-Methionene.

S.A.A.Sajadi , M. Mirzai, *International Symposia on Advancing the Chemical Sciences (ISACS)* , Hong Kong, China. (2010).

47) A GIS-based erosion modeling

M. Mirzai, **S.A.A.Sajadi**

International Conference on Chemical, Biological and Environmental Engineering, Paris, France, (2010).

48) A Comparative Investigation of Interaction Between Metal Ions with L-Cysteine and L-Methionine Related Compounds in Aqueous Solution.

S.A.A.Sajadi, *Research & Reviews in Biosciences*, **4** (1) (2010).

49) Study of Interactions of Divalent Metal ions Complexes with L-Tartaric Acid and Cu(II) binary and Ternary Complexes.

S.A.A.Sajadi, *Inorganic Chemistry (AIJ)*, **1** (6), (2011).

50) A Comparative Investigation of Lead Sulfate and Lead Oxide Sulfate. Study of Morphology and Thermal Decomposition.

S.A.A.Sajadi, *American Journal of Analytical Chemistry*, **2** (2), (2011).

51) Metal Ion-Binding Properties of the Aspartic Acid, in Aqueous Solution.

S.A.A.Sajadi, *Intern. Journal of Research in Inorganic Chemistry*, **1** (2), (2011).

52) A Comparative Investigation of Interaction Between Co^{2+} , Cu^{2+} , and Zn^{2+} Ions with L-Methionine.

S.A.A.Sajadi, 19th International Symposium on Processing & Fabrication
PFAM 19 Conference, New Zealand, Jan. 14-17, (2011).

53) Study of Stabilities of L-Cysteine and L-Methionine with Divalent Metal Ions. A Comparison of Thermodynamic Data.

S.A.A.Sajadi, *The 5th International Conference on Bioinformatics and Biomedical Engineering*, Wuhan, China (ICBBE 2011).

54) A Comparative Investigation of Interaction Between Metal Ions with L-Tryptophan, L-Methionine and Related Compounds Such as Alanine, Leucine, Valine, and Glycine in Aqueous Solution.

S.A.A.Sajadi , The International Symposia on Advancing the Chemical Sciences - *Challenges in Chemical Biology (ISACS5)*.

Royal Society of Chemistry, Manchester, England, UK, 2011.

55) Study of Intramolecular Interaction between heteroaromatic systems such as 2,2'-Bipyridyl or Tryptophan with 5'-nucleotide acid ATP in Aqueous Solution.

S.A.A.Sajadi ,

12th International Congress on Amino Acids, Peptides and Proteins, Beijing, China, 2011.

56) Biological Treatment of Liquid Phase of Oil-Water Emulsion.

A.Nazari, S.A.A.Sajadi,

4th International Congress of Environmental Research, India, 2011.

57) Study of Interaction Between Metal Ions with L-Tryptophan, L-Methionine and Related Compounds.

S.A.A.Sajadi , *43rd IUPAC World Chemistry Congress, Puerto Rico, 2011.*

58) Study of Interaction Between Metal Ions with L-Tryptophan, L-Methionine.

S.A.A.Sajadi, *Journal of Material Science and Engineering (A&B) A1 (2011).*

59) L-Tryptophan, a Study on Interactions in Cu(II) Binary and Ternary Complexes in Aqueous Solution.

S.A.A.Sajadi , *American Journal of Chemistry, (2011), 1(1), 1-3.*

60) Study on Interactions in Cu(II) and Zn(II) Binary Complexes with L-Trptophane, in Aqueous Solution.

S.A.A.Sajadi, *The 6th International Conference on Bioinformatics and Biomedical Engineering, Wuhan, China (ICBBE 2012).*

61) Study on Interactions of Divalent Metal Ions with Aspartic Acid in Binary Complexes.

S.A.A.Sajadi , *Journal of Current Chemical & Pharmaceutical Sciences*, 2(1), (2012), 32-36.

62) Complex Bilding Behavior of L-Tryptophan and Related Amino Acids, a Comparative Investigation.

S.A.A.Sajadi , *American Journal of Chemistry*, (2011), 1(1), 1-5.

63) Ternary Complexes of Glycine in Aqueous Soloution.

S.A.A.Sajadi, M. Mirzai ,

The 4th International Conference on Drug Discovery and Therapy, (2012), Feb. 12-15th , Dubai.

64) Glycine and L-Tryptophan, a Comparative Investigation on Interactions in Cu(II) Binary and Ternary Complexes in Aqueous Soloution.

S.A.A.Sajadi, *American Journal of Biochemistry*, 2(3), (2012), 36-40.

65) Study on interactions in Cu(II) and Zn(II) binary complexes with L-tryptophan, in aqueous solution

S.A.A.Sajadi, A. Nazari

Challenges in inorganic Materials Chemistry (ISACS8), Toronto-Canada, July(2012).

66) Metal-Ion-Coordinating Properties of Various Amino Acids, Investigation of the Essential Function in Biological Systems Regarding to their Nano-Structure.

S.A.A.Sajadi

International Journal of Bio-inorganic Hybrid Nanomaterial 1(1), (2012), 25-32.

67) Complex Bilding Behavior of 2((4-Methyl-5-Nitro-6-(Pyrolidine-1-yl)Pyrimidine-2-yl)Amino)Propionic Acid in Aqueous Solution,

S.A.A.Sajadi, G. Bagherzadeh, M. Kermane, M. Khaleghian,

Open J. Inorg. Non-met. Mat., 3, (2013), 6-9.

68) Modeling and Simulation of Watershed Erosion: Case Study of Latian Dam Watershed,

M. Mirzai, **S.A.A.Sajadi**, A. Nazari,

Intern. J. Phys. Sci. (2014).

69) Equilibrium Studies of 2,2-(5-Bromo-6-Methylpyrimidine-2,4-diyl) Bis (Azanediyl) Dipropionic Acid with some Transition Metal Ions in Aqueous Solution,

A.A.A.Sajadi, G. Bagherzadeh, M. Khaleghian, M. Mirbagheri, H. Safaie,

Quim. Nova, 37(5), (2014), 896-899.

70) Study of Thermal Behavior of CrO₃ Using TG and DSC,

S.A.A. Sajadi, M. Khaleghian,

J. Therm. Anal. Calorim., 116, (2014), 915-921.

71) Amino Acids and their Complex Formation Properties with Divalent Metal Ions. A Comparative Investigation of Structure and Stability in Binary Systems,

S.A.A.Sajadi, *Current Pharm. Anal.*, 10(2), (2014), 122-134.

72) Stability of Binary and Ternary Copper(II) Complexes of 2((4-Methyl-5-Nitro-6-(Pyrolidine-1-yl)Pyrimidine-2-yl)Amino)Propionic Acid in Aqueous Solution,

S.A.A.Sajadi, G. Bagherzadeh, M. Khaleghian, M. Kermani,

Scientica Iranica, 21 (6), (2014).

73) Equilibria and Stability in Glycine, Tartrate and Tryptophan Complexes, Investigation on Interactions in Cu(II) Binary and Ternary Systems in Aqueous Solution,

S.A.A.Sajadi, *Open J. Inorg. Non-met. Mat.*, 4, (2014), 1-6.

74) A Strategy for Total Recovery of Residue from Terephthalic Acid Production Process.

S.A.A.Sajadi , V. Rezai,

Russian Journal of Applied Chemistry, 88, (2015), 1201-1206.

75) Estimates of vegetation and changes in rainfall and runoff in the catchment area.

A Case Study of Latian watershed.

Mohammad Mirzaei, Alireza Nazari Alavi, **Ali akbar sajadi,**

Biosci. Biotech. Res. Comm., 15, (2017).

76) Equilibria and Stability in Tartrate and 2, 2-(5-Bromo-6-Methylpyrimidine-2, 4 Diyl) Bis (Azanediyl) Dipropionic Acid Complexes, Investigation on Interactions in Cu (II) Binary and Ternary Systems in Aqueous Solution.

Seyed Ali Akbar Sajadi, Marzieh Khaleghian, Mohamad Mirzai, Alireaz Nazari Alavi
Int. J. Rev. Life. Sci., 5(11), 2015, 123-129.

77) Vitamin C and Metal Ions Transportation in the Body. Equilibrium Studies of Ascorbic Acid with Divalent Metal Ions in Aqueous Solution.

S. A. A. Sajadi, M. Khaleghian,

Int. J. Rev. Life. Sci., 5(11), 2015, 130-135.

78) Assessment of the Performance of Microbial Fuel Cell (MFC) for the Removal of Nitrate from Water

Vahid Irani, Mahdi Seyedsalehi, **Sayed Ali Akbar Sajadi,** Mina EbrahimiArjestan,

Indian Journal of Science and Technology, Vol 9(35), DOI:

10.17485/ijst/2016/v9i35/93026.

79) Hollow alumina nanospheres as novel catalyst for the conversion of methanol to dimethyl ether

N. Rostamizadeh, M. Seyedsadjadi, **Sayed Ali Akbar Sajadi**

Journal of Particle Science and Technology 2 (2016) 15-22.

80) Investigation on Synthesis of Hydroxyapatite Nanoparticles by Polyelectrolyte Modified Inverse Microemulsion Technique using Casein as a Matrix.

R. Sahba, N. Farhadyar, **S.A.A.Sajadi**, M.S. Sadjadi.

Res. J. Biotech. 12 (11) , (2017).

81) Investigation of thermal behavior of α -PbO and β -PbO in O₂ atmosphere,

S. A. A. Sajadi, A. Nazari Alavi, M. Mirzai,

Metalurgija, 2017.

82) Preparation and characterization of friendly colloidal hydroxyapatite based on natural milk's casein,

R. Sahba, M. Seyed Sadjadi, **A. A. Sajadi**, N. Farhadyar, B. Sadeghi,

International Journal of Nano Dimension, 2018.

83) Complex Properties and Equilibrium Studies of Ascorbic Acid with Metal Ions in Aqueous Solution,

S. A. A. Sajadi, A. Nazari Alavi, M. Mirzai,

International Journal of Advanced Biotechnology and Research, 9, (2018), 1-8.

84) Separation and Recovery of Platinum and Palladium from Spent Catalysts using Activated Carbon,

M. Assadzadeh, **S. A. A. Sajadi**,

Iranian Journal of Chemistry and Chemical Engineering (IJCCE), (2018).

85) Synthesis a New Schiff Base as a Chelating Agent for Reliable Quantification of Zinc from Water and Biological Samples,

Malihe Ebrahimpour, Ghodsieh Bagherzade, **Seyed Ali Akbar Sajadi**, Rouhollah

Khani, *Eurasian Journal of Analytical Chemistry, 2018, 13(5), 2-10.*

86) Synthesis, characterization and selective oxidation using a new copper (II) Schiff base complex derived from Alanine and 4chloro3- formyl coumarin,

Malihe Ebrahimpoura, Ghodsieh Bagherzadea,

Seyed Ali Akbar Sajadi, Rouhollah Khania,

Iran. Chem. Commun. 6 (2018) 228-241.

87) An Experimental Study on Mechanical Behavior of a Calcite Cemented Gravelly Sand

M. R. Shakeri, S. M. Haeri, M.M. Shahrabi, A. Khosravi, **S. A. A. Sajadi**,

Geotechnical Testing Journal, (2018).

88) Behavior of Ascorbic Acid and Biological Systems, a Study of Interactions in Cu(II) Binary and Ternary Complexes in Aqueous Solution,

S. A. A. Sajadi, A. Nazari and M. Mirzai,

International Journal of Advanced Biotechnology and Research (IJABR) ISSN 0976-2612, Online ISSN 2278-599X, Vol -10, Issue-2, 2019, pp 507-511.

89) Anticancer Activity in Breast Cancer Cells Through Inhibition of DNA Cleavage, Using PHCUTR. Intermolecular Aromatic Ring Stacking of PHCUTR with DNA and Its Relation to Structure Stability,

S.A.A. Sajadi, *International Journal of Advanced Biotechnology and Research (IJABR)*

ISSN 0976-2612, Online ISSN 2278-599X, Vol -10, Issue-2, 2019, pp 512-517.

90) Preparation of Nano-particles of CrN and Cr₂N in N₂ Atmosphere. Thermal investigation of Cr, Using TG and DSC;

S.A.A.Sajadi, *J. Appl. Res. Chem.* 16 (2), 2022, pp 128-133.

91) Wastewater Treatment of Textile Industry by Electrocoagulation Process;

A. R. Nazari Alavi, S. A. A. Sajadi, M. Mirzai, H. Hasanian,

Journal of Water and Wastewater, [dx.doi.org/10.22093/wwj.2022.322697.3219](https://doi.org/10.22093/wwj.2022.322697.3219), 2022.

92) Investigations of Thermal Behavior of Fe₃Si₂O₅(OH)₄. Sb₃O₆(OH). Sb₂O₃ in air Atmosphere. A Study of acidic leaching process of Sb mineral;

S. A. A. Sajadi , M. Sadeghi Nainie,

J. Therm. Anal. Cal., 150, 2023, 15-22.

b) National Journals:

1) Preparation of 4,4-Bithiazole Derivate Complexes with Divalent Metal Ions Co, Ni & Zn.

S. Ali A. Sajadi, R. Mostaghim.

Journal of Chemistry, 7, (2000), 7,.

2) Separation of Minerals from Saline Water.

S. Ali A. Sajadi, S. J. Hashemian

Research Aricles of Sharif University of Technology, (2000).

3) Study of Lead Compounds used in the Industry.

S. Ali A. Sajadi, S. J. Hashemian

Research Aricles of Sharif University of Technology, (2000).

4) Separation of Epsomite and Bischofite from Saline Water.

S. Ali A. Sajadi, S. J. Hashemian

Research Aricles of Sharif University of Technology, (2001).

5) Manganese & Lead in the Battery Industry.

S. Ali A. Sajadi

Green Jouranl of Sanat University, (2001).

6) Production of Minerals from Urmia Lake.

S. Ali A. Sajadi, S. J. Hashemian

Journal of Institute of Engineering - Urmia University, (2001).

7) Improve of Purification Methods for Production of Bischofite from Saline Water.

S. Ali A. Sajadi, S. J. Hashemian

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- 4- Influence of Solvent Effect and Different Substituents on the Kinetics of Zigma Reactions Using Calculation EN-INITIO, M. Omidi, (2009).
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Positions

2007 Director Internship Section of Research Departement (sharif University of Technology)

Managing various basic and detail design and construction stages of wastewater treatment, throughout the country. Duties included project management and control of the above functions and providing advice to the Deputy Minister for industrial estates. Design of

industrial plants, Manager and Coordinator of Sharif University of Technology (academic researcher) and different section of industry.

Executive Positions

- *Supervisor of different projects, 2005-2008; Ministry of Mines & Metals.
- *Islamic Azad University Research Council.
- *Institute of Water and Energy, Research Council, Sharif University of Technology.
- *Advisory Board, Journal of Battery, 2004-2007.
- *Advisory Board, International Journal of Bio-Inorganic Hybrid Nanomaterials.
- *Associate Editor, Journal of Nanostructure in Chemistry.
- *Referee of Journal of Water and Wastewater.
- *Associate Editor, Journal of Applied Science Research

Member ship

American Chemical Society (ACS)

American Association for the Advancement of Science (AAAS).