

Dr. Zaid Mahmood

Associate Professor Analytical & General Chemistry

Research Publications: 32 Research Publications in International & National Journals

Research Publications

Dr. Zaid Mahmood. Associate Professor Analytical & General Chemistry

1. Catalytic Oxidations of Amine and Aldehydes, New Vistas in Organometallic Chemistry (Jaipur/ India), March 5-9, 1984.
2. Reactions of Transition metals with N, N-dimethyl benzylamine and Benzylideneaniline, J. Sc. Res., 1984, Vol, XIII, No. 1&2, 59.
3. Distribution studies on Meta-nitrobenzoic Acid in water-benzene system at different temperature. Pak. J. Sci; 1984, 369(1), 59.
4. Benzylideneaniline and N,N-dimethylbenzylamine Derivatives of I(B) and II(b) metals. J. Chem. Soc. Pak., 1986, 8, 338. **Impact Factor:0.197**
5. Catalytic Oxidation of Aniline and Substituted Aldehydes, Sci. Int. Lahore., 1988, 1, 125.
6. Ortho-nitro,-amino,-cyano and bromo substituted derivatives of N,N-dimethylbenzylamine, J. Chem. Soc. Pak., 1992, 14, 71. **Impact Factor:0.197**
7. Bonding and Ligand Exchange in Pentamethyldialane: an IR, NMR and *Ab Initio* study. J. Chem. Soc. Farady Trans., 1995, 91(18), 305. **UK. Imp Factor: 2.502**
8. Association and Exchange in Dialkylgallane in Toluene Solution. J. Organometallic Chemistry. 1996, 506, 327. **UK. Impact Factor: 1.632**
9. Vapour Phase Far-infrared Studies of η -bonded Carbonyls, 1,3-Butadiene Tricarbonyl, Cyclopentadienylmanganese Tricarbonyl and Methylcyclopentadienyl manganese Tricarbonyl. Spectrochimica Acta Part A, 1997, 53,995. **UK.I.Fact:1.29**
10. Comparative Infrared Laser-Powered Homogeneous Pyrolysis studies of Trimethylgallane, Triethylgallane, Tri-isopropylgallane, Tri-isobutylgallane and Tri-tertiarybutylgallane, J. Analytical & Applied Pyrolysis 1997, 44, 29. **USA. IF: 1.207**

11. Spectroscopic Studies of Gaseous Binary Metal Carbonyls. Vibrational Spectra and Bonding in Iron pentacarbonyl and Hexacarbonyl of Chromium, Molybdenum and Tungston. Pakistan Journal of Scientific Research, 2002, **54** No. 3-4.
12. Synthesis and Characterization of σ -bond Phenyl-Palladium Complexes with Triphenylantimony Ligands. Pakistan Journal of Scientific Research 2002, 54, No.3-4.
13. Synthesis and Spectroscopic Studies of Molybdenum and Tungston Tetra carbonyl Compounds with Schiff Base Ligands., Pakistan Journal of Science 2002, 54, No. 3-4.
14. Synthesis and Characteruzation of Allyl Complexes of Molybdenum with Schiff Base Ligands. Pakistan Journal of Science 2002, Vol. 54 No. 3-4.
15. Spectroscopic Studies of Substituent effect on the Stability of 2,4-pentane-dianato-anils as free Ligands and their Complexes. University of Engineering and Technology Research Journal. (vol 13, July 2001-December 2002 No. 3).
16. Structural Study of 4-Amino-3-Penten-2-Ones Ligands and Substituent Effect in Comparison with its Parent Compound by Infrared Spectroscopy. University of Engineering and Technology Research Journal. (Vol 13, July 2001-December 2002 No.3).
17. Assay of Urea with p-Dimethylaminobenzaldehyde. J. Chem. Soc. Pak. 2002, **24.No 2**. 122.

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18. .Assessment of Chromium and Nickle in Common members of Cereals. J. Chem, Soc, Pak vol 25.No.3, 2003. 248.

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19. Synthesis and Characterization of Cu(II) Complexes with Schiff Base of Salicylidene-4-Triflouro-mthhyl Aniline and its Hydrogen analogue. J, Chem, Soc, Pak. Vol. 25, No.1, 2003,

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20. Synthesis and Structure Determination of Allyl Complexes of Molybdenum J, Chem, Soc, Pak. Vol. 25, No.1, 2003. 41-43. **Impact Factor:0.197**
21. Route of Cadmium and Lead Contamination in root vegetables. Pakistan Journal of Scientific Research, Vol. 56,3-4, 2004, 135-140
22. Spectroscopic studies of Exchange and pyrolysis reactions in mixture of Timethylamin- alane, Trimethylgallane and Triethylgallane, Jour. Chem. Soc. Pak. Vol.26, No.3, 2004, 222-233. **Impact Factor:0.197**
23. Synthesis and Structural determination of Allyl complexes of Molybdenum and Tungston by Spectroscopic Methods (X-ray, NMR, IR, and Ms Spectrometry). Jour. Chem. Soc. Pak, Vol. 27, No.1, 95, 2005. **Impact Factor:0.197**
24. Synthesis, spectral characterization and reactivity of alkyl/allyl complexes of transition metal
13th IUPC International symposium on organometallic chemistry directed towards organic synthesis. 17-21 July 2005, Geneva Switzerland.
25. Comparative Vapour phase FTIR Spectra and Vibrational Assignment of Manganese Pentacarbonyls. Derivatives of the Type XMn(CO)₅. (Where X=Br, Cl, I, H, D, CH₃, CD₃, CF₃). "Spectrochimica Acta Part A 65 (2006) 445-452. (UK. Impact Factor: 1.29)
26. Characterization of lactate dehydrogenase enzyme immobilized to magnetic nanoparticles. Pak. J. Zool, 38(4) 327-332, 2006.
27. Low Frequency Vapour Phase Infrared Spectra of Carbonyls. Derivatives of the type XMn(CO)₅. (Where X= Br, Cl, H, D, CH₃, CD₃, CF₃). **Journal of Molecular Spectroscopy**"2006" (Submitted for Publication.)
28. Synthesis and Spectroscopic Studies of 4-Substituted β-Diketo-aniline in Free and in Coordinated Forms. Pakistan Journal of Scientific Research, Vol 56, No.3-4, 2005 (Accepted in press)
29. Synthesis and Spectroscopic studies some Novel Fluoro Ligands and Fluoro Chelates in Comparison with their Hydrogen Analogue. Pakistan Journal of Science. Vol. 56, No 3-4 2005. (Accepted in press)

30. Synthesis, Characterization and Effect of Flourine Substituted in Salicylidene-4-Flouro aniline in Comparison with its Hydrogen Analogue. Pakistan Journal of Science Vol. 56, No 3-4. 2005 (Accepted in press)
31. Comparative FTIR Studies and Vibrational Assignment of Cyclopentadienyl-manganese-tricarbony and Methylcyclopentadienyl-manganese-tricarbonyl. "Spectrochimica Acta Part A"2006" (Submitted for Publication.)
32. Vapour phase FTIR spectra of Benzenetricarbonyl-chromium and related compounds, $\text{Cr}(\text{CO})_3(\text{aene})$ (arene = benzene, aniline, toluene and anisol). European Journal of Inorganic Chemistry 2006. (Submitted for Publication).