APPENDIX

LIST OF PUBLICATIONS

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1. Coordination behaviour of 2-(1-carboxyl-2-hydroxyphenyl)benzothiazoline.
   K. Dey, R. Bhowmick and **S. Sarkar.**
   Synth. React. Inorg. Met-Org. Chem., **32**, 1393 (2002).

2. Synthesis and characterization of some new heterochelates of chromium(III).
   K. Dey, B.B. Bhaumik, S. Biswas and **S. Sarkar.**
   Indian J. Chem., **42(A)**, 1661 (2003).

3. Synthesis and characterization of some vanadium(III) complexes with tetradentate Schiff bases.
   K. Dey, B.B. Bhaumik and **S. Sarkar.**
   Indian J. Chem., **43(A)**, 773 (2004).

4. X-ray diffraction studies, thermal, electrical and optical properties of oxovanadium(IV) complexes with quadridentate Schiff bases.
   S. Sarkar, Y. Aydogdu, F. Dagdelen, B.B. Bhaumik and K. Dey.
   Materials Chem. Phys., **88**, 357 (2004).

5. Synthesis, characterization and reactions of metal complexes of 2-(1-formylferrocene) thiazoline and 2-methyl-2-(1-ferrocene)thiazoline.
   K. Dey, S. Mukhopadhyay and **S. Sarkar.**
   Indian J. Chem., **43(A)**, 1853 (2004).

6. Synthesis and characterization of some new manganese(II) complexes, manganese(III) heterochelates and μ-dioxo-manganese(IV) complexes involving quadridentate Schiff bases.
   K. Dey, S. Biswas and **S. Sarkar.**
   Synth. React. Inorg. Met-Org. Chem., **34**, 1615 (2004).

7. Synthesis and characterization of some mononuclear complexes of the Schiff base {N,N′-2,2′-bis(aminoethyl)methylaminebis(3-carboxysalicylaldimine)}.
K. Dey, R. Bhowmick, **S. Sarkar**, S. Biswas and D. Koner.
Synth. React. Inorg. Met-Org. Nano Met. Chem., **35**, 285 (2005).

8. Homo- and hetero-binuclear complexes of compartmental Schiff base ligand. Synthesis and characterization.
K. Dey, **S. Sarkar**, R. Bhowmick, S. Biswas and D. Koner.
Indian J. Chem., **44(A)**, 1995 (2005).

9. Synthesis and spectroscopic characterization of some transition metal complexes of a new hexadentate $N_2S_2O_2$ Schiff base ligand.
S. Sarkar and K. Dey.
Spectrochim. Acta (A), **62**, 383 (2005).

10. Synthesis, characterization and coordination behaviour of 2-(1-carboxyl-2-hydroxyphenyl) thiazolidine.
K. Dey, S. Mukhopadhyay, **S. Sarkar**, S. Biswas and B.B. Bhaumik.
J. Coord. Chem., **59**, xxxx (2005) (Article in Press).

11. Synthesis and characterization of a new thiohydrazone ligand, 3-carboxybenzaldehyde morpholine N-thiohydrazone and its metal complexes.
K. Dey, **S. Sarkar**, S. Mukhopadhyay, A.K. Mallick, S. Biswas and B.B. Bhaumik.
J. Coord. Chem., **59**, xxxx (2005) (Article in Press).

12. New route to the synthesis of bis{N-(2-aminoethyl)salicylaldiminato} chromium(III) chloride monohydrate. Characterization, crystal structure and interaction with DNA.
S. Biswas, **S. Sarkar**, K. Dey, B. Jana, T.D. Basu, G.P.A. Yap and K. Kreisel.
Spectrochim. Acta (A), (Accepted for publication) (2006).

13. Spectroscopy, crystal structure, valence molecular orbital energy level diagram and DFT study of *cis*-$[Cr(2,2'\text{-bipy})_2](Cl)_{0.38}(PF_6)_{0.62}$.
T. Kar, Meng-Sheng Liao, S. Biswas, **S. Sarkar**, K. Dey, G.P.A. Yap and K. Kreisel.
Spectrochim. Acta (A), (Accepted for publication) (2006).

14. Synthesis and characterization of Oxovanadium(IV), vanadium(IV) and oxovanadium(V) complexes of tetradentate Schiff bases. Attempted preparation of vanadium-carbon bonded compounds through desilylation (carbon-silicon bond cleavage).
K. Dey, **S. Sarkar**, S. Biswas and B. B. Bhaumik.
(Communicated, 2006).

15. Solid state properties of mononuclear manganese(III) heterochelates involving tetradentate Schiff base: X-ray diffraction studies, thermal, electrical and optical properties.
Y. Aydogdu, S. Biswas, F. Dagdelen, **S. Sarkar** and K. Dey.
(Communicated, 2006).

16. Condensation behaviour of diacetyl monoxime with morpholine N-thiohydrazide in the absence and in the presence of metal ion. Synthesis of a sulphur-nitrogen heterocycle with non-bonded S S interaction.
S. Biswas, **S. Sarkar**, K. Dey, S. Sarkar, G. Mostafa, G.P.A Yap and K. Kreisel.
(Communicated, 2006).

17. Reactions of 3-carboxy-2-hydroxybenzaldehyde morpholine N-thiohydrazone (H_2chbmth) with R_2MCl_2 (where, R = π-C_5H_5, and M = Ti/Zr; R = Me/Ph, M = Sn; R = OMe and M = Ti), (π-C_5H_5)Ti(OMe)Cl_2 and $RMCl_3$ (R = Me/Ph and M = Sn; R = π-C_5H_5 and M = Ti) leading to the synthesis of new organo- derivatives of titanium(IV), zirconium(IV) and tin(IV).

S. Sarkar, K. Dey, S. Biswas and B. B. Bhaumik.
(Communicated, 2006).