

PUBLICATIONS: Dr T.S. Basu Baul

Articles in journals

1. **Basu Baul, T. S.**, Chattopadhyay, T. K. and Majee, B. (1983): Organotin complexes of 5-arylaazo-8-quinolinols. *Polyhedron* **2**, 635 - 640.
2. **Basu Baul, T. S.**, Chattopadhyay, T. K. and Majee, B. (1984): Transition metal-organotin mixed complexes: First examples. *Indian J. Chem.* **23A**, 470 - 474.
3. **Basu Baul, T. S.** and Dey, D. (1989): Dioxouranium(VI) complexes of some 5-azoxines and an example of water soluble azoxine uranium(VI) complex. *Synth. React. Inorg. Met.-Org. Chem.* **19**, 101 -112.
4. **Basu Baul, T. S.** (1989): Modified microcombution technique for nitrogen estimation in organotin complexes of o-carbazoxine. *Indian J. Technol.* **27**, 270 - 271.
5. Dey, S., **Basu Baul, T. S.**, Roy, B. and Dey, D. (1989): A new rapid method of air drying for scanning electron microscopy using tetramethylsilane. *J. Microscopy* **156**, 259 - 261.
6. **Basu Baul, T. S.** and Dey, D. (1990): Synthesis and structural information on mercury(II) chloride complexes with some mono ortho- substituted medially metallized type azo dyes. *Synth. React. Inorg. Met.- Org. Chem.* **20**, 541 - 558.
7. **Basu Baul, T. S.** (1991): Synthesis of indirect ortho organostannyl complexes via azo-mercurials: A preliminary communication. *Acta Cienc. Indica* **17**, 251 - 254.
8. **Basu Baul, T. S.** (1991): Adducts of tin(IV) chloride with arylazophenol and naphthol series. *Bull. Soc. Chim. (Fr.)* **128**, 454 - 456.
9. Chattopadhyay, P., Sinha, T. K. and **Basu Baul, T. S.** (1991): Extraction spectrophotometric method for the determination of uranium in geological samples using a ternary complex of 2-(p-methylphenylazo)pyridine and thiocyanate. *Analytical Sciences(Jpn.)* **7** 931 - 933.
10. Basu Baul, S., **Basu Baul, T. S.** and Gielen, M. (1992): Synthesis and characterisation of triphenyltin complexes of arylazophenols and naphthols. *Synth. React. Inorg. Met.-Org. Chem.* **22**, 107 - 122.
11. Saran, R., **Basu Baul, T. S.**, Srinivas, P. and Khathing, D. T. (1992): Simultaneous determination of trace heavy metals in waters by atomic absorption spectrometry after preconcentration by solvent extraction. *Anal. Lett.* **25**, 1545 - 1557.
12. **Basu Baul, T. S.** and Lycka, A. (1992): Tin-nitrogen connection in triphenyltin chloride 2-(arylaazo)pyridine complexes. *Polyhedron* **11**, 2423 - 2425.
13. **Basu Baul, T. S.**, Dey, D., Mishra, D. D., Basaiawmoit, W. L. and Rivarola, E. (1993): The first authenticated example of triorganotin(IV) perchlorate complexes of some heterocyclic bases: Part I: Synthesis, characterization and assessment of bonding and structure. *J. Organomet. Chem.* **447**, 9 - 13.

14. **Basu Baul, T. S.**, Dey, D. and Mishra, D. D. (1993): Synthesis and spectroscopic investigation on diorganotin(IV) complexes with some arylazo-2-pyridine. *Synth. React. Inorg. Met.- Org. Chem.* **23**, 53 - 65.
15. Dey, D., **Basu Baul, T. S.** and Rivarola, E. (1993): A convenient synthesis and structural assessment of $[\text{Sn}(\text{CH}_3)_2(\text{L}_2)](\text{ClO}_4)_2$. *Bull. Chem. Soc.(Jpn.)* **66**, 1556 - 1558.
16. **Basu Baul, T. S.** and Basaiawmoit, W. L. (1993): Complexes of tin(IV) halide with substituted arylazo-2-pyridine. *J. Indian Chem. Soc.* **70**, 151 - 152.
17. Dey, D., **Basu Baul, T. S.** and Rivarola, E. (1993): Synthesis and structural studies by infrared, ^1H NMR and ^{119}Sn Mössbauer spectroscopy of diorganotin(IV) diperchlorate complexes with heterocyclic bases. Part II. *Synth. React. Inorg. Met.- Org. Chem.*, **23**, 1285 -1298.
18. Sarma, K., **Basu Baul, T. S.**, Basaiawmoit, W. L. and Saran, R. (1993): Synthesis and structural characteristics of some arylazodyes derived from salicylaldehyde and salicylic acid-Part I. *Spectrochim. Acta* **49A**, 1027.
19. Choudhury, S., **Basu Baul, T. S.**, Bajpai, P. K. and Basaiawmoit, W. L. (1993): Spectral characteristics of some biologically significant chelating Schiff bases. *Spectrochim. Acta* **49A**, 1028.
20. Sarma, K. K., **Basu Baul, T. S.** and Mishra, D. D. (1993): Adducts of Tin(II) halides with some substituted 5-arylazosalicylaldehydes. Part 2. *Synth. React. Inorg. Met.-Org. Chem.* **23**, 1277 - 1284.
21. **Basu Baul, T. S.** and Tiekink, E. R. T. (1993): Crystal structure of diphenyltin chloride N,N-dicyclohexyldithiocarbamate. *Main Group Met. Chem.* **16**, 201 - 207.
22. Roy, A., Chakrabarti, A., Chattopadhyay, T. K., **Basu Baul, T. S.** and Cardin, C. J. (1993): Unusual reaction of the salts of dithiocarboxylic acids and carbazic acid with organotin(IV) chloride. *Indian J. Chem.* **32A**, 259 - 261.
23. **Basu Baul, T. S.** and Rivarola, E. (1993): Infrared and ^{119}Sn Mössbauer spectroscopic investigation of some triphenyltin arylideneanthranilates. *Indian J. Chem.* **32A**, 905 - 906.
24. Basu Baul, S., **Basu Baul, T. S.** and Rivarola, E. (1994): Synthesis and configurations of some dimethyltin dichloride complexes of arylazophenols and naphthols. *Synth. React. Inorg. Met.-Org. Chem.* **24**, 473 - 485.
25. Saran, R. and **Basu Baul, T. S.** (1994): Determination of submicrogram amounts of mercury(II) with 5-(2'-carbomethoxyphenyl)azo-8-quinolinol in presence of anionic surfactant by derivative spectrophotometry. *Talanta* **41**, 1537 - 1544.
26. Sarma, K. K., **Basu Baul, T. S.**, Rivarola, E. and Agrawal, R. P. (1994): Characterization of some triphenyltin(IV) complexes of 5-(arylo)salicylaldehyde ligands using IR, ^1H , ^{13}C , ^{119}Sn NMR and ^{119}Sn Mössbauer spectroscopy. *Polyhedron* **13**, 2217 - 2222.
27. Dey, D., **Basu Baul, T. S.** and Rivarola, E. (1995): Synthesis and structural characterization of 2-(arylo)pyridine triphenyltin(IV) perchlorate. *Indian J. Chem.* **34A**, 239 -240.

28. Bajpai, P. K., Paul, B. and **Basu Baul, T. S. (1995)**: Structure of some arylazophenols and arylazonaphthols in solid state: A resonance Raman study. *J. Raman Spectrosc.* **26**, 217 - 222.
29. **Basu Baul, T. S.**, Sinha, T. K. and Saran, R. (1995): Preparation and characterization of mercury(II) complexes containing 5-(aryl)azo-8-quinolinol ligands. *Synth. React. Inorg. Met.-Org. Chem.* **25**, 615 - 623.
30. Bajpai, P. K., Paul, B. and **Basu Baul, T. S. (1995)**: Structural characterization of some quinolin-8-ol-containing azodyes in solid and solution state as probed by resonance Raman, Fourier transform IR and electronic spectroscopic techniques. *J. Raman Spectrosc.*, **26**, 351 - 361.
31. **Basu Baul, T. S.** and Tiekink, E. R. T. (1996): Polymeric [p-(2-hydroxy-5-methylphenylazo)benzoato]trimethyltin. *Acta Crystallogr.* **C52**, 1428 - 1430.
32. **Basu Baul, T. S.** and Tiekink, E. R. T. (1996): Bis(2-hydroxybenzoato-O,O')dimethyltin. *Acta Crystallogr.* **C52**, 1959 - 1961.
33. Basu Baul, S., **Basu Baul, T. S.** and Tiekink, E. R. T. (1996): Crystal and molecular structure of chlorodimethyltin bis(p-chlorobenzoylhydrazine)chloride p-chlorobenzoyl -hydrazine: A diorganotin cation with pentagonal bipyramidal coordination. *Main Group Met. Chem.* **19**, 183 - 191.
34. **Basu Baul, T. S.** and Tiekink, E. R. T. (1996): Crystal and molecular structure of o-aminobenzoato(o-(p-dimethylaminobenzalidine)benzoato)(o-aminobenzoate)dimethyltin(IV), an example of a mixed carboxylate complex of tin. *J. Chem. Crystallogr.* **26**, 393 - 397.
35. **Basu Baul, T. S.** and Tiekink, E. R. T. (1996): Refinement of the crystal structure of triphenyltin o-(2-hydroxy-5-methylphenylazo)benzoato acetone solvate (2/1), (C₆H₅)₃SnO₂C(C₆H₄) NN (C₆H₃)(OH)CH₃. 0.5 C₃H₆O. *Z. Kristallogr.* **211**, 489 - 490.
36. **Basu Baul, T. S.**, Pyke, S. P., Sarma, K. K. and Tiekink, E. R. T. (1996): Crystal and molecular structure of aquatriphenyltin 2'-(3-formyl-4-hydroxyphenylazo)benzoate. *Main Group Met. Chem.* **19**, 807 - 814.
37. **Basu Baul, T. S.** and Tiekink, E.R.T. (1997): Crystal structure of trimethyltin 5-(2'-carboxyphenylazo)salicylaldehyde, C₁₇H₁₈N₂O₄Sn. *Z. Kristallogr. (NCS)* **212**, 363 - 364.
38. **Basu Baul, T. S.** and Tiekink, E. R. T. (1997): Crystal structure of [p-(2-hydroxy-5-methylphenylazo)benzoato]triethyltin. C₂₀H₂₆N₂O₃Sn. *Z. Kristallogr. (NCS)* **212**, 365 - 366.
39. Basu Baul, S., **Basu Baul, T. S.** and Tiekink, E. R. T. (1998): Crystal structure of (N-o-tolylpyridine-2-carbaldimine)trichlorovinyltin(IV), C₁₃H₁₅Cl₃N₂Sn. *Z. Kristallogr.* **213**, 51 - 52.
40. **Basu Baul, T. S.**, and Tiekink, E. R. T. (1998): The crystal and molecular structures of R₂Sn(O₂CR¹)Cl: R = Me, ^tBu and Ph; -O₂CR¹ = o-(2-hydroxy-5-methylphenylazo)benzoate. *Z. Kristallogr.* **213**, 62 - 68.
41. Basu Baul, S., **Basu Baul, T. S.**, Rivarola, E., Dakternieks, D., Tiekink, E. R. T., Chatterjee, A. and Sing-ai, C. (1998): Synthesis, Characterization of Diorganotin(IV) Complexes of *N*-

(2-pyridylmethylene)arylamines and mutagenicity testing *in vivo* of Et₂SnCl₂.L⁴ [L⁴ = N-(2-pyridylmethylene)-4-toluidine. *Appl. Organomet. Chem.* **12**, 503 - 513.

42. Dakternieks, D., **Basu Baul, T. S.**, Dutta, S. and Tiekink, E. R. T. (1998): Synthesis, Characterization, and X-ray structures of diphenyltin(IV) N-(2-hydroxyacetophenone)glycinate, its 1:1 adduct with triphenyltin(IV) chloride, and related systems. *Organometallics* **17**, 3058 - 3062.
43. Willem, R., Verbruggen, I., Gielen, M., Biesemans, M., Mahieu, B., **Basu Baul, T. S.** and Tiekink, E. R. T. (1998): Correlating Mossbauer, solution and solid state ¹¹⁷Sn NMR data with X-ray diffraction structural data of triorganotin 2-[(E)-2-(2-hydroxy-5-methylphenyl)-1-diazenyl]benzoates. *Organometallics* **17**, 5758 - 5766.
44. Basu Baul, S., **Basu Baul, T. S.** and Tiekink, E.R.T. (1999): Crystal structure of dichlorodimethyl[N-2-pyridylmethylene]-3-toluidine]tin, C₁₅H₁₈Cl₂N₂Sn. *Z. Kristallogr. (NCS)* **214** 207 - 208.
45. Basu Baul, S., **Basu Baul, T. S.** and Tiekink, E.R.T. (1999): Crystal structure of dichlorodimethyl[N-2-pyridylmethylene]-4-toluidine]tin, C₁₅H₁₈Cl₂N₂Sn. *Z. Kristallogr. (NCS)* **214** 209 - 210.
46. Basu Baul, S., **Basu Baul, T. S.** and Tiekink, E.R.T. (1999): Crystal structure of dichlorodimethyl[N-2-pyridylmethylene]-2-toluidine]tin, C₁₅H₁₈Cl₂N₂Sn. *Z. Kristallogr. (NCS)* **214**, 211-212.
47. Basu Baul, S., **Basu Baul, T. S.** and Rivarola, E. (1999): Organotin(IV) complexes of aromatic acid hydrazides: Preparation and spectroscopic studies. *Synth. React. Inorg. Met.-Org. Chem.* **29**, 215 - 231.
48. **Basu Baul, T. S.** and Tiekink, E. R. T. (1999): The crystal and molecular structures of R₂Sn(O₂CR¹)₂: R = ^tBu, Ph; -O₂CR¹ = 2-[(E)-2-(2-hydroxy-5-methylphenyl)-diazenyl]benzoate. *Z. Kristallogr.* **214**, 566-570.
49. **Basu Baul, T. S.**, Dutta, S. and Tiekink, E. R. T. (1999): Crystal structure of diphenyltin(IV) N-(2-hydroxy-5-methylacetophenone)glycinate, C₂₃H₂₁NO₃Sn. *Z. Kristallogr. (NCS)* **214**, 361-362.
50. Basu Baul, S., **Basu Baul, T. S.** and Tiekink, E.R.T. (1999): Synthesis and X-ray crystal structure of ¹¹⁹Bu₂SnCl₂.(C₆H₅N=CHC₅H₄N-2). *Indian J. Chem.* **38A**, 501-505.
51. **Basu Baul, T. S.**, Dhar, S., Kharbani, N., Pyke, S. M., Butcher, R. and Smith, F. E. (1999): The synthesis and structural characterization of some triorganotin(IV) complexes of 5-(4-chlorophenylazo)salicylic acid: Crystal and molecular structure of triphenyltin 5-(4-chlorophenylazo)salicylate. *Main Group Met. Chem.*, **22**, 413-421.
52. Pal, B., Bajpai, P. K. and **Basu Baul, T. S.** (2000): Binding of 5-(2'-carboxyphenyl)azoquinolin-8-ol to bovine serum albumin: A spectroscopic study. *Spectrochim. Acta*, **56**, 2453 - 2458.
53. **Basu Baul, T. S.**, Dhar, S. and Tiekink, E. R. T. (2000): 5-[(E)-2-(4-Methoxyphenyl)-1-diazenyl]-2-hydroxybenzoic acid. *Acta Crystallogr.* **C56**, 1280-1281.
54. **Basu Baul, T. S.**, Dhar, S., Pyke, S. M., Tiekink, E. R. T., Rivarola, E., Butcher, R. and Smith, F. E. (2001): Synthesis and characterization of triorganotin(IV) complexes of 5-[(E)-

2-(aryl)-1-diazenyl]-2-hydroxybenzoic acids. Crystal and molecular structures of a series of triphenyltin 5-[(E)-2-(aryl)-1-diazenyl]-2-hydroxybenzoates (aryl = phenyl, 2-methylphenyl, 3-methylphenyl and 4-methoxyphenyl), *J. Organomet. Chem.*, **633**, 7-17.

55. Syng-ai, C., **Basu Baul, T. S.** Dutta, and Chatterjee A. (2001): Inhibition of cell proliferation and antitumour activity of a novel organotin compound, *J. Environ. Path. Toxicol. Oncology*, **20**, 333-342.
56. **Basu Baul, T. S.**, Dutta, S., Rivarola, E. and Choudhuri, S. (2001): Synthesis, Characterization of diorganotin(IV) complexes of *N*-(2-hydroxyarylidene)aminoacetic acid and antitumour screening in vivo in Ehrlich ascites carcinoma cells, *Appl. Organomet. Chem.*, **15**, 947-953.
57. **Basu Baul, T. S.**, Dhar, S. and Tiekink, E. R. T. (2001): X-ray structure of dibutylbis{5-[(E)-2-(2-methylphenyl)-1-diazenyl]-2-hydroxybenzoato}tin(IV), *Main Group Met. Chem.*, **24**, 293-294.
58. Syng-ai, C., **Basu Baul, T. S.** Dutta, and Chatterjee A. (2002): Antiproliferative and cytotoxic effect of a novel organotin compound on mammalian cells both in vitro and in vivo, *Mutat. Res.*, **513**, 49-59.
59. Herberich, G. E., **Basu Baul, T. S.** and Englert, U. (2002): Complexes of the (Tetramethylcyclobutadiene)cobalt fragment with boratabenzene ligands and an unprecedented formation of a borabenzene complex. Structures of $(C_4Me_4)Co(3,5-Me_2C_5H_3BSnMe_3)$ with a Sn-B bond and of the dinuclear complex $[(C_4Me_4)Co(3,5-Me_2C_5H_3B)]_2O$, *Eur. J. Inorg. Chem.*, 43-48.
60. **Basu Baul, T. S.**, Dutta, S., Rivarola, E., Butcher, R. and Smith, F. E. (2002): The synthesis and structural characterization of some triorganotin(IV) complexes of 2-{[(E)-1-(2-hydroxyaryl)alkylidene]amino}acetic acid. Crystal and molecular structures of $Ph_3Sn(2-OHC_6H_4C(H)=NCH_2COO)$ and $Me_3Sn(2-OHC_6H_4C(CH_3)=NCH_2COO)$. *J. Organomet. Chem.*, **654**, 100-108.
61. **Basu Baul, T. S.**, Dutta, S., Masharing, C., Rivarola, E. and Englert, U. (2003): Organotin(IV) complexes of *N*-[(2Z)-3-hydroxy-1-methyl-2-butenylidene]glycine. *Heteroatom Chem.*, **14**, 149-154.
62. **Basu Baul, T. S.**, Dhar, S., Rivarola, E., Smith, F. E., Butcher, R., Song, X., McCain, M. and Eng, G. (2003): Synthesis and characterization of some dibutylbis{5-[(E)-2-(aryl)-1-diazenyl]-2-hydroxybenzoato}tin(IV) compounds. Toxicity studies of di- and tri-organotin complexes on the second instar of *Aedes aegypti* mosquito larvae, *Appl. Organomet. Chem.*, **17**, 261-267.
63. Usman, A., Fun, H.K., **Basu Baul, T.S.** and Paul, P. C. (2003): [2-(2-Hydroxyphenyl)ethylidene]amino}acetate]aquacopper(II)monohydrate, *Acta Crystallogr. (E)*, **E59**, 438- 440.
64. **Basu Baul, T.S.**, Lycka, A, Butcher, R and Smith F. (2004): Synthesis, X-ray crystal structures and multinuclear NMR characterization of Hg(II) complexes of 2-[(E)-2-(aryl)-1-diazenyl]pyridine, *Polyhedron*, **23**, 2323-2329.
65. **Basu Baul, T.S.**, Rynjah, W., Willem, R., Biesemans, Ingrid Verbruggen, M., Holčapek, M., Vos, D. de and Linden, A. (2004): Dibutyltin(IV) Complexes of the 5-[(E)-2-(Aryl)-1-diazenyl]-2-hydroxybenzoic Acid Ligand: An Investigation of Structures by X-ray

Diffraction, Solution and Solid State Tin NMR, Electrospray Ionisation MS and assessment of *in vitro* cytotoxicity, *J. Organomet. Chem.*, **689**, 4691-4701.

66. **Basu Baul, T.S.**, Singh, K. S., Song, X., Zapta, A., Eng, G., Lycka, A. and Linden, A. (2004): Synthesis and characterization of tributyltin(IV) complexes of 2-[(*E*)-2-(3-formyl-4-hydroxyphenyl)-1-diazenyl]benzoic acid and 4-[[(*E*)-1-{2-hydroxy-5-[(*E*)-2-(2-carboxyphenyl)-1-diazenyl]phenyl}methylidene)amino]aryls. Crystal structures of polymeric $(\text{Bu}_3\text{Sn}[\text{O}_2\text{CC}_6\text{H}_4\{\text{N}=\text{N}(\text{C}_6\text{H}_3-4\text{-OH-5-CHO})\}-o])_n$ and $(\text{Bu}_3\text{Sn}[\text{O}_2\text{CC}_6\text{H}_4\{\text{N}=\text{N}(\text{C}_6\text{H}_3-4\text{-OH}(\text{C}(\text{H})=\text{NC}_6\text{H}_4\text{Cl-4})\}-o)])_n$. Toxicity studies on the second instar of *Aedes aegypti* mosquito larvae, *J. Organomet. Chem.*, **689**, 4702-4711.
67. Linden, A., **Basu Baul, T.S.** and Mizar, A. (2005): *cis*- bis(8-hydroxyquinolino- k^2 *N,O*) diphenyl tin(IV), *Acta Crystallogr.*, **E61**, m27-m29.
68. **Basu Baul, T.S.**, Rynjah, W., Rivarola, E., and Linden, A. (2005): Synthesis and characterization of triphenyltin(IV) 5-[(*E*)-2-(aryl)-1-diazenyl]-2-hydroxybenzoates. Crystal and molecular structures of $\text{Ph}_3\text{Sn}\{\text{O}_2\text{CC}_6\text{H}_3\text{-}p\text{-OH}[\text{N}=\text{N}(\text{C}_6\text{H}_4\text{-4-CH}_3)]\}$ and the 2,2'-bipyridine adduct $\text{Ph}_3\text{Sn}\{\text{O}_2\text{CC}_6\text{H}_3\text{-}p\text{-OH}[\text{N}=\text{N}(\text{C}_6\text{H}_4\text{-2-CH}_3)]\}\text{OH}_2\cdot\text{C}_{10}\text{H}_8\text{N}_2$, *J. Organomet. Chem.*, **690**, 613-621.
69. **Basu Baul, T.S.**, Rynjah, W., Rivarola, E., Pettinari, C. and Linden, A. (2005): Synthesis and characterization of the first diorganotin(IV) complexes containing mixed arylazobenzoic acids and having skew trapezoidal bipyramidal geometry, *J. Organomet. Chem.*, **690**, 1413-1421.
70. **Basu Baul, T.S.**, Singh, K. S., Lycka, A., Holčapek, M. and Linden, A. (2005): Synthesis of a cyclic dinuclear organotin carboxylate via simultaneous debenylation and decarbonylation reactions: X-ray crystal structure of $[(\text{PhCH}_2)_2\{\text{O}_2\text{CC}_6\text{H}_4\{\text{N}(\text{H})-\text{N}(\text{C}_6\text{H}_3-4(=\text{O})-5\text{-O})\}-o\}\text{Sn}]_2$, *J. Organomet. Chem.*, **690**, 1581-1587.
71. Linden, A., **Basu Baul, T.S.** and Masharing, C. (2005): Chloro $\{\mu\text{-}2\text{-}[(\text{E})\text{-}1\text{-}(2\text{-oxido-}3\text{-methylphenyl)ethylideneamino}\text{-}]\text{acetato}\}$ pentaphenylditin(IV), *Acta Crystallogr.*, **E61**, m557-m559.
72. Butcher, R. J., **Basu Baul, T.S.**, Singh, K. S. and Smith, F. E. (2005): A quasi-planar polyaromatic compound containing an azo and a Schiff base linkage, *Acta Crystallogr.*, **E61**, o1007-o1009.
73. **Basu Baul, T.S.**, Masharing, C., Willem, R., Biesemans, M., Holčapek, M., Jirásko, R. and Linden, A. (2005): Self-assembly of diorganotin(IV) 2- $\{[(\text{E})\text{-}1\text{-}(2\text{-oxyaryl)alkylidene}\text{-}]\text{amino}\}$ acetates: An investigation of structures by X-ray diffraction, solution and solid state tin NMR, and electrospray ionisation MS, *J. Organomet. Chem.*, **690**, 3080-3094.
74. **Basu Baul, T.S.**, Singh, K. S., Holčapek, M., Jirásko, R., Linden, A., Song, X., Zapta, A. and Eng, G. (2005): Electrospray ionization mass spectrometry of tributyltin(IV) complexes and their larvicidal activity on mosquito larvae; crystal and molecular structure of polymeric $(\text{Bu}_3\text{Sn}[\text{O}_2\text{CC}_6\text{H}_4\{\text{N}=\text{N}(\text{C}_6\text{H}_3-4\text{-OH}(\text{C}(\text{H})=\text{NC}_6\text{H}_4\text{OCH}_3\text{-4})\}-o)])_n$, *Appl. Organomet. Chem.*, **19**, 935-944.
75. **Basu Baul, T.S.**, Singh, K. S., Holčapek, M., Jirásko, Rivarola, E. and Linden, A. (2005): Synthesis, characterization and crystal structures of polymeric and dimeric triphenyltin(IV)

complexes of 4-[(*E*)-1-{2-hydroxy-5-[(*E*)-2-(2-carboxyphenyl)-1-diazenyl]phenyl}methylidene)amino]aryls, *J. Organomet. Chem.*, **690**, 4232-4242.

- 76. Basu Baul, T.S.,** Rynjah, W., Singh, K. S., Pellerito, C., D'Agati, P. and Pellerito, L., (2005): Embryotoxicity studies of tri-*n*-butyltin(IV) complexes of 5-[(*E*)-2-(aryl)-1-diazenyl]-2-hydroxybenzoic acid and 2-[(*E*)-2-(3-formyl-4-hydroxyphenyl)-1-diazenyl]benzoic acid on sea urchin development, *Appl. Organomet. Chem.*, **19**, 1189-1195.
- 77. Linden, A., Basu Baul, T. S.** and Singh, K. S., (2005): *catena*-Poly[[tri-*n*-butyltin(IV)]- μ -2-{(*E*)-4-hydroxy-3-[(*E*)-4-methylphenyliminomethyl]phenyldiazenyl}benzoate-*k*²*O*:*O*'], *Acta Crystallogr.*, **E61**, m2711-m2713.
- 78. Basu Baul, T. S.,** Masharing, C., Basu, S., Rivarola, E., Holčapek, M., Jirásko, R., Lyčka, A., de Vos, D., and Linden, A. (2006): Synthesis, characterization, cytotoxic activity and crystal structures of tri- and di-organotin(IV) complexes constructed from the β -{[(*E*)-1-(2-hydroxyaryl)alkylidene]amino}propionate and β -{[(*Z*)-(3-hydroxy-1-methyl-2-butenylidene)]amino}propionate skeletons, *J. Organomet. Chem.*, **691**, 952-965.
- 79. Basu Baul, T. S.,** Mizar, A., Lyčka, A., Rivarola, E., Jirásko, R., Holčapek, M., de Vos, D., Englert, U., (2006): Diphenyltin(IV) complexes of the 5-[(*E*)-2-(aryl)-1-diazenyl]quinolin-8-olates: Synthesis and multinuclear NMR, ¹¹⁹Sn Mössbauer, Electrospray ionization MS, X-ray characterization and assessment of *in vitro* cytotoxicity, *J. Organomet. Chem.*, **691**, 3416-3425.
- 80. Basu Baul, T.S.,** Mizar, A., Song, X., Eng, G., Jirásko, R., Holčapek, M., Willem, R., Biesemans, M., Verbruggen, I., Butcher, R. (2005): Dibenzyltin(IV) complexes of the 5-[(*E*)-2-(aryl)-1-diazenyl]quinolin-8-olates: synthesis and an investigation of structures by X-ray diffraction, solution and solid state tin NMR, ¹¹⁹Sn Mössbauer and electrospray ionization MS, *J. Organomet. Chem.*, **691**, 2605-2613.
- 81. Auvray, N., Basu Baul, T.S.,** Braunstein, P., Croizat, P., Englert, U., Herberich, G. E., Welter, R. (2006): Organometallic building blocks with amino-substituted cyclopentadienyl and boratabenzene ligands for the synthesis of heterometallic complexes and clusters, *J. Chem. Soc., Dalton Trans.*, 2950-2958.
- 82. Basu Baul, T.S.,** Singh, K.S., Linden, A., Song, X., Eng, G. (2006): Synthesis, spectroscopic characterization of tribenzyltin(IV) complexes of polyaromatic carboxylic acid ligands. Crystal and molecular structures of Bz₃Sn[O₂CC₆H₄{N=N(C₆H₃-4-OH(C(H)=NC₆H₄X-4)-o)}(OH₂) (X = -Cl, -OCH₃), *Polyhedron*, **25**, 3441-3448.
- 83. Basu Baul, T.S.,** Singh, K.S., Lyčka, A., Linden, A., Song, X., Eng, G. (2006): Synthesis, characterization and crystal structures of triorganotin(IV) complexes of 4-[(*E*)-2-(3-formyl-4-hydroxyphenyl)-1-diazenyl]- and 4-{(*E*)-4-hydroxy-3-[(*E*)-4-(aryl)iminomethyl]phenyldiazenyl}-benzoic acids and toxicity studies of their tri-*n*-butyltin(IV) derivatives on the *Aedes aegypti* and *Anopheles stephensi* mosquito larvae, *Appl. Organomet. Chem.*, **20**, 788-797.
- 84. Linden, A., Basu Baul, T.S.,** Singh, K.S. (2006): 2-{(*E*)-3-[(*E*)-4-Bromophenyliminomethyl]-4-hydroxyphenyldiazenyl}benzoic acid toluene hemisolvate, *Acta Crystallogr.*, **E62**, o2566-o2568.
- 85. Basu Baul, T.S.,** Rynjah, W., Rivarola, E., Lyčka, A., Holčapek, M., M., Jirásko, R., de Vos, D., Ray J. Butcher Linden, A. (2006): Synthesis and characterization of

- bis[dicarboxylatotetraorganodistannoxane] units involving 5-[(*E*)-2-(Aryl)-1-diazenyl]-2-hydroxybenzoic acids: An investigation of structures by X-ray diffraction, NMR, electrospray ionisation MS and assessment of in vitro cytotoxicity, *J. Organomet. Chem.*, **691**, 4850-4862.
86. Linden, A., Wolstenholme, D., **Basu Baul, T.S.**, Rynjah, W. (2007): Bis{ μ -2-hydroxy-5-[(*E*)-2-(2-methoxyphenyl)diazenyl]benzoate}bis(di-*n*-butyl{2-hydroxy-5-[(*E*)-2-(2-methoxyphenyl)diazenyl]benzoate}tin(IV)), *Acta Crystallogr.*, **E63**, m1547-m1548.
87. **Basu Baul, T.S.**, Masharing, C., Rivarola, E., Smith, F. E. and Butcher, R. J. (2007): Synthesis and Characterization of Tribenzyltin(IV) and Dibenzyltin(IV) Complexes of 2-[[2(*Z*)-3-hydroxy-1-methyl-2-butenylidene]amino}acetic acid. Crystal Structure of Tribenzyl{2-[[2(*Z*)-3-hydroxy-1-methyl-2-butenylidene]amino}acetate}tin(IV), *Struct. Chem.*, **18**, 231-235.
88. **Basu Baul, T.S.**, Rynjah, W., Song, X., Eng, G. And Linden, A. (2007): Synthesis and spectroscopic characterization of some triorganotin(IV) 5-[(*E*)-2-(4-methylphenyl)-1-diazenyl]-2-hydroxybenzoates. Crystal and molecular structures of $(\text{Me}_3\text{Sn}\{\text{O}_2\text{CC}_6\text{H}_3\text{-}p\text{-OH}[\text{N}=\text{N}(\text{C}_6\text{H}_4\text{-}4\text{-CH}_3)]\})_n$, $\text{Et}_3\text{Sn}\{\text{O}_2\text{CC}_6\text{H}_3\text{-}p\text{-OH}[\text{N}=\text{N}(\text{C}_6\text{H}_4\text{-}4\text{-CH}_3)]\}\text{OH}_2$ and $\text{Bz}_3\text{Sn}\{\text{O}_2\text{CC}_6\text{H}_3\text{-}p\text{-OH}[\text{N}=\text{N}(\text{C}_6\text{H}_4\text{-}4\text{-CH}_3)]\}$, *J. Organomet. Chem.*, **692**, 3392-3399.
89. Jirásko, R., Holčapek, M. and **Basu Baul, T.S.** (2007): Electrospray ionization multistage tandem mass spectrometry of complex multitin organometallic compounds, *J. Mass Spectrom.*, **42**, 918-928.
90. **Basu Baul, T.S.**, Rynjah, W., Rivarola, E., Pettinari, C., Holčapek, M., Jirásko, R., Englert, U. and Linden, A. (2007): Di-*n*-octyltin(IV) complexes with 5-[(*E*)-2-(Aryl)-1-diazenyl]-2-hydroxybenzoic acid: Syntheses and assessment of solid state structures by ^{119}Sn Mössbauer and X-ray diffraction, and further insight into the solution structures using electrospray ionization MS, ^{119}Sn NMR and Variable temperature NMR spectroscopy, *J. Organomet. Chem.*, **692**, 3625-3635.
91. **Basu Baul, T.S.**, Masharing, C., Ruisi, G., Jirásko, R., Holčapek, M., de Vos, D., Wolstenholme, D., Linden, A. (2007): Self-assembly of extended Schiff base amino acetate skeletons, 2-[[2(*Z*)-(3-hydroxy-1-methyl-2-butenylidene)]amino}phenylpropionate and 2-[[(*E*)-1-(2-hydroxyaryl)alkylidene]amino}-phenylpropionate skeletons incorporating organotin(IV) moieties: Synthesis, spectroscopic characterization, crystal structures, and in vitro cytotoxic activity, *J. Organomet. Chem.*, **692**, 4849-4862.
92. **Basu Baul, T.S.**, Basu, S., Tiekink, E.R.T. (2007): Methyl 2-[(*E*)-2-(3-formyl-4-hydroxyphenyl)diazenyl]benzoate, *Acta Crystallogr.*, **E63**, o3358.
93. **Basu Baul, T.S.**, Mizar, A., Tiekink, E.R.T. (2007): Methyl 2-[[(*E*)-8-oxo-5,8-dihydroquinolin-5-ylidene]hydrazine]benzoate, *Acta Crystallogr.*, **E63**, o4256.
94. Koch, B., **Basu Baul, T.S.**, Chatterjee, A. (2008): Cell proliferation inhibition and antitumour activity of novel alkyl series of diorganotin(IV) compounds, *J. Appl. Toxicol.*, **28**, 430-438.
95. **Basu Baul, T.S.**, Masharing, C., Basu, S., Pettinari, C., Rivarola, E., Chantrapromma, S., Fun, H.K. (2008): Synthesis, characterization of some diorganotin(IV) complexes of Schiff bases derived from a non-protein amino acid. Crystal structures of $\{\text{HO}_2\text{CC}_6\text{H}_4[\text{N}=\text{C}(\text{H})]\{\text{C}(\text{CH}_3)\text{CH}(\text{CH}_3)\text{-}3\text{-OH}\}\text{-}p\}$ and its di-*n*-butyltin(IV) complex $(^n\text{Bu}_2\text{Sn}\{\text{O}_2\text{CC}_6\text{H}_4[\text{N}=\text{C}(\text{H})]\{\text{C}(\text{CH}_3)\text{CH}(\text{CH}_3)\text{-}3\text{-OH}\}\text{-}p\})_2$, *Appl. Organomet. Chem.*, **22**, 114-121.

96. **Basu Baul, T.S.**, Mizar, A., Rivarola, E., Englert, U. (2008): Re-visiting of 5-[(E)-2-(aryl)-1-diazenyl]-quinolin-8-ol with tweaking of Sn-Ph groups: Synthesis, spectroscopic characterization and X-ray crystallography, *J. Organomet. Chem.*, **693**, 1751-1758.
97. **Basu Baul, T.S.**, Mizar, A., Chandra, A.K., Song, X., Eng, G., Jirásko, R., Holčapek, M., de Vos, D., Linden, A. (2008): Synthesis, crystal structures, cytotoxicity and qualitative structure-activity relationship (QSAR) of *cis-bis*{5-[(E)-2-(aryl)-1-diazenyl]quinolinolato} di-*n*-butyltin(IV) complexes, *Bu₂Sn(L)₂*, *J. Bioinorg. Chem.*, **102**, 1719-1730.
98. Basu, S., Mizar, A., **Basu Baul, T.S.**, Rivarola, E. (2008): ¹¹⁹Sn Mössbauer characterization of self assembled organotin(IV) complexes with Schiff bases containing amino acetate skeletons, *Hyperfine Interact.*, **185**, 95-102.
99. **Basu Baul, T.S.** (2008): Anti-microbial activity of organotin(IV) compounds: a review, *Appl. Organomet. Chem.*, **22**, 195-204.
100. **Basu Baul, T.S.**, Paul, A., Arman, H.D., Tiekink, E.R.T. (2008): 2-[(E)-(5-tert-butyl-2-hydroxyphenyl)diazenyl]benzoic acid, *Acta Crystallogr.*, **E64**, o2125.
101. Koch, B., **Basu Baul, T.S.**, Chatterjee, A. (2009): p53-dependent antiproliferative and antitumor effect of novel alkyl series of diorganotin(IV) compounds, *Invest. New Drugs*, **27**, 319-326.
102. **Basu Baul, T.S.**, Basu, S., de Vos, D., Linden A. (2009): Amino acetate functionalized Schiff base organotin(IV) complexes as anticancer drugs: synthesis, structural characterization and in vitro cytotoxicity studies, *Invest. New Drugs*, **27**, 419-431.
103. **Basu Baul, T.S.**, Das, P., Chandra, A.K., Mitra, S., Pyke, S.M. (2009): The synthesis, characterization and structures of some 4-[(E)-1-{2-hydroxy-5-[(E)-2-(aryl)-1-diazenyl]phenyl}methylidene)amino]benzoic acid, *Dyes Pigm.* **82**, 379–386.
104. **Basu Baul, T.S.**, Mizar, A., Paul, A., Ruisi, G., Willem, R., Biesemans, M., Linden, A., (2009): Crystal and solution structures of di-*n*-butyltin(IV) complexes of 5-[(E)-2-(4-methoxyphenyl)-1-diazenyl]quinolin-8-ol and benzoic acid derivatives: En route to elegant self-assembly via modulation of the tin coordination geometry, *J. Organomet. Chem.*, **694**, 2142–2152.
105. **Basu Baul, T.S.**, Masharing, C., Ruisi, G., Pettinari, C., Linden, A., (2009): Synthesis and structures of two triorganotin(IV) polymers R₃Sn{O₂CC₆H₄[N=C(H)]C(CH₃)CH(CH₃)-3-OH}-p_n (R = Me and Ph) containing a 4-[(2Z)-(3-Hydroxy-1-methyl-2-butenylidene)amino]benzoic acid framework, *J. Inorg. Organomet. Polym.*, **19**: 395–400.
106. **Basu Baul, T.S.**, Das, P., Rivarola, E., (2009): ¹¹⁹Sn Mössbauer, NMR (¹H, ¹³C and ¹¹⁹Sn) and infrared study of tetracoordinated tin(IV) complexes with 4-[(E)-1-{2-hydroxy-5-[(E)-2-(aryl)-1-diazenyl]phenyl}methylidene)amino]benzoates, *Hyperfine Interact.*, **194**: 391–400.
107. **Basu Baul, T.S.**, Kundu, S., Arman H.D., Tiekink, E.R.T., (2009): An orthorhombic polymorph of 5-[(4-methylphenyl)diazenyl]salicylaldehyde, *Acta Crystallogr.*, **E65**, o3061.
108. Linden, A., **Basu Baul, T.S.**, Das, P. (2010): Tetrakis(μ 2-4-aminobenzoato)di- μ 3-oxido-tetrakis[dibutyltin(IV)], *Acta Crystallogr.* **C66**, m58–m61.

109. **Basu Baul, T.S.**, Paul, A., Tiekink, E.R.T., (2010): 4-[(*E*)-2-(5-tert-butyl-2-hydroxyphenyl)diazen-1-yl]benzoic acid hemibenzene solvate, *Acta Crystallogr.*, **E66**, o540.
110. **Basu Baul, T.S.**, Das, P., Rivarola, E., Song, X., Eng, G., (2010): Synthesis, spectroscopic characterization and structures of tributyltin(IV) 4-[(*E*)-1-{2-hydroxy-5-[(*E*)-2-(aryl)-1-diazenyl]phenyl}methylidene)amino]benzoates. Toxicity studies on the second larval instar of the *Anopheles stephensi* mosquito larvae. *J. Inorg. Organomet. Polym.*, **20**, 61-68.
111. **Basu Baul, T.S.**, Das, P., Eng, G., Linden, A., (2010): Synthesis and characterization of some triphenyltin(IV) complexes from sterically crowded [(*E*)-1-{2-hydroxy-5-[(*E*)-2-(aryl)-1-diazenyl]phenyl}methylidene)amino]acetate ligands and crystal structure analysis of a tetrameric triphenyltin(IV) compound, *J. Inorg. Organomet. Polym.*, **20**, 134-141.
112. **Basu Baul, T.S.**, Das, P., Song, X., Eng, G., Quah, C.K., Fun, H.K., (2010): Synthesis and structural studies on tetranuclear tin compositions containing tin $\{[R_2Sn(LH)]_2O\}_2$ moieties (R = Bu or Oct and LH = 4-[(*E*)-1-{2-hydroxy-5-[(*E*)-2-(aryl)-1-diazenyl]phenyl}methylidene)amino]benzoate), *Z. Anorg. Allg. Chem.*, **636**, 851-856.
113. **Basu Baul, T.S.**, Paul, A., Tiekink, E.R.T., (2010): An unprecedented triorganotin carboxylate structure – an isolated aggregate containing neutral and deprotonated forms of a carboxylic acid, *Z. Kristallogr.*, **225**, 153-157.
114. **Basu Baul, T.S.**, Paul, A., Pellerito, L., Scopelliti, M., Singh, P., Verma, P., de Vos, D., (2010): Triphenyltin(IV) 2-[(*E*)-2-(aryl)-1-diazenyl]benzoates as anticancer drugs: synthesis, structural characterization, *in vitro* cytotoxicity and study of its influence towards the mechanistic role of some key enzymes, *Invest. New Drugs*, **28**, 587-599.
115. **Basu Baul, T.S.**, de Vos, D., (2010): *In vitro* cytotoxic evaluation of novel dichlorodiorgano[*N*-(2-pyridylmethylene)arylamine]tin(IV) derivatives in human tumor cell lines, *Invest. New Drugs*, **28**, 609-614.
116. **Basu Baul, T.S.**, Paul, A., Pellerito, L., Scopelliti, M., Pellerito, C., Singh, P., Verma, P., Duthie, A., de Vos, D., Verma, R.P., Englert, U. (2010): Molecular basis of the interaction of novel tributyltin(IV) 2/4-[(*E*)-2-(aryl)-1-diazenyl]benzoates endowed with an improved cytotoxic profile: Synthesis, structure, biological efficacy and QSAR studies, *J. Bioinorg. Chem.*, **104**, 950-966.
117. **Basu Baul, T.S.**, Paul, A., Pellerito, L., Scopelliti, M., Singh, P., Verma, P., Duthie, A., de Vos, D., Tiekink, E.R.T., (2011): Dibutyltin(IV) complexes containing arylazobenzoate ligands: Chemistry, *in vitro* cytotoxic effects on human tumor cell lines and mode of interaction with some enzymes, *Invest. New Drugs*, **29**, 285-299.

Other articles:

1. **Basu Baul, T. S.** (2000): Organotin unit as the building block in 2-[(*E*)-2-(2-hydroxy-5-methylphenyl)-1-diazenyl]benzoic acid system: An overview, *BOYSCAST News Letter 1(4)*, 4 – 5 (Published by Department of Science & Technology, New Delhi).

Patent:

Granted: 01

Basu Baul, T. S. (1998): Diethyldichloro (*N*-(2-pyridylmethylene)-4-toluidinetin(IV): A novel diorganotin compound having anti-tumour and anti-cancer activity. Indian Patent No. : 199990, Application No. 1838/CAL/1998 dt. 16/10/98), Date of filing: 16th Oct. 1998 and Patent granted on 17th Nov. 2006.

Applied: 01

Basu Baul, T. S. (2008): Synthesis of *bis*(di-2-{(E)-(4-hydroxy-3-[(E)-(p-tolylimino)methyl]phenyl)diazanyl}benzoato)tetra-*n*-butyldistannoxane: An organotin(IV) compound having antitumour and anticancer activity (Process started on 01/02/08 and forwarded to DST).

Articles in Conference/ Symposium/ Workshop

1. **Basu Baul, T. S.**, B. Majee and Roy, A., (1980): Polynuclear organotin complexes, *Modern Trends in Coordination Chemistry*, Organised by Inorganic Chemistry Division, The Institute of Science, Bombay, **S16**, 6th Oct. – 8th Oct.
2. B. Majee and **Basu Baul, T. S.**, (1982): On the synthesis of organotin-transition metal mixed complexes, *Third National Symposium on Elemento-Organic Compounds in Chemical Synthesis*, Organised by Department of Chemistry, University of Rajasthan, Jaipur, 22nd Feb. – 25th Feb.
3. **Basu Baul, T. S.** and Chattopadhyay, T. K., (1983): Azo-hydrazone tautomerism in (arylazo)phenoxyacetic acids and their organotin complexes, *70th Session of the Indian Science Congress*, Tirupati, Organised by Indian Science Congress Association, Calcutta.
4. B. Majee, Chattopadhyay, T. K., **Basu Baul, T. S.** and Halder, M. N., (1983): Metal and organometal complexes of ortho-carbazoxine, *Symposium on New Vistas in Organometallic Chemistry*, Organised by Department of Chemistry, University of Rajasthan, Jaipur, **S16**, 10th Feb. – 13th Feb.
5. **Basu Baul, T. S.**, (1987): Direct/Indirect ortho/ortho substituted stannylation reactions of trans azobenzene, *National Symposium on organometallic Chemistry in India: Present and the Future*, Organised by Department of Chemistry, University of Noth Bengal, Darjeeling, **P3**, 29th May. – 31st May..
6. Dey, D. and **Basu Baul, T. S.**, (1993): Organotin perchlorate complexes of some heterocyclic nitrogen donor ligands, *Winter School-cum-Workshop on Organometallic Chemistry*, Organised by Department of Chemistry, Indian Institute of Technology, New Delhi, **PP3**, 6th Dec. – 8th Dec.
7. Sarma, K. K., Dey, D. and **Basu Baul, T. S.**, (1993):Triphenyltin complexes of some arylazosalicylaldehyde ligand system: Synthesis, characterization, assessment of bonding and structure, *30th Annual Convention of Chemists*, Organised by Indian Chemical Society, Calcutta, **A32**, 22nd Dec. – 24th Dec.

8. Saran, R., Sardana, A.K. and **Basu Baul, T. S.**, (1993): Spectrophotometric determination of cadmium with 5-(2'-carbomethoxyphenyl)azo-8-quinolinol in presence of sodium dodecylsulphate as surfactant, *30th Annual Convention of Chemists*, Organised by Indian Chemical Society, Calcutta, **D33**, 22nd Dec. – 24th Dec.
9. Sinha, T. K., Borah, A.S., Das, D.K. and **Basu Baul, T. S.**, (1993): Determination of Molybdenum in geological materials by Inductively Coupled Plasma Atomic Emission Spectrometry, *30th Annual Convention of Chemists*, Organised by Indian Chemical Society, Calcutta, **D49**, 22nd Dec. – 24th Dec.
10. Borah, A.S., Sinha, T. K., and **Basu Baul, T. S.**, (1993): Determination of Molybdenum in geological materials by Inductively Coupled Plasma Atomic Emission Spectrometry, *30th Annual Convention of Chemists*, Organised by Indian Chemical Society, Calcutta, **D50**, 22nd Dec. – 24th Dec.
11. **Basu Baul, T. S.** and Tiekink, E. R. T., (1995): Organotin(IV) complexes of 5-(aryloxy)salicylic acid. *10th National Convention*, Organised by The Royal Australian Chemical Institute, Adelaide, Australia, **P36**, 27th Sept. – 2nd Oct.
12. Dutta, S. and **Basu Baul, T. S.**, (1997): The synthesis and structures of diphenyltin(IV) N-(2-hydroxyacetophenone)glycine and its molecular adducts with triphenyltin(IV) chloride: Use of state-of-the-art-equipments in relation to structure determination, *Anacon '97*, Organised by Indian Analytical Instruments Association and BARC, Bombay, **P15**, 11th Dec. – 13th Dec.
13. **Basu Baul, T. S.**, (1998): *Participated in 17th Annual Convention of Indian Association for Cancer Research*, Organised by Chittaranjan National cancer Institute, Calcutta, 21st Jan. – 24th Jan.
14. **Basu Baul, T. S.**, (1999): An overview of organotin carboxylates: Synthesis, structures and surprises, *National Symposium on Highlights of Recent Chemical Research*, Organised by Department of Chemistry, North Eastern Hill University, Shillong, **P6**, 10th June – 11th June.
15. Dutta, S. and **Basu Baul, T. S.**, (1999): Synthetic and structural aspects of organotin complexes of 2-{[(E)-1-(5-hydroxyphenyl)ethylidene]aminoacetic} acid, *International Conference on Chemistry and Thirty Six Annual Convention of Chemists*, , Organised by Indian Chemical Society, Calcutta, **P92**, 11th Dec. – 16th Dec.
16. **Basu Baul, T. S.**, (2000): Molecular architecture in organotin(IV) 2-{[(E)-2-(2-hydroxy-5-methylphenyl)-1-diazenyl]benzoates}, *Modern Trends in Inorganic Chemistry*, Organised by Department of Inorganic and Physical Chemistry, Bangalore, **P25**, 18th Jan. – 20th Jan.
17. **Basu Baul, T. S.**, (2001): A novel diorganotin compound having antitumour and anticancer activity, *100th Patent Workshop*, Organised by Patent Facilitating Centre, TIFAC, DST, New Delhi, **P26**, 28th June – 29th June.
18. Rivarola, E., Scopelliti, M, **Basu Baul, T.S.**, Dutta, S., Masharing, C. And Englert, U. (2002): The synthesis and structural characterization of organotin(IV) complexes of N-[2-

butenylidene]glycine, *XXX Congresso di Chimica Inorganica*, Organised by Societa Chimica Italiana, Modena, Italy, 15th – 19th September.

19. **Basu Baul, T.S.** (2003): “Synthesis and characterization of organotin carboxylates: Investigation of mutagenicity tests and antitumour bioassay with reference to an understanding of a structure/activity relationship”, Group Monitoring Workshop on DST funded Projects in Inorganic Chemistry, Indian Institute of Science, Bangalore, 21-22 August.
20. **Basu Baul, T. S.,** Rynjah, W. (2003): “Dibutylbis{5-[(E)-2-(aryl)-1-diazenyl]-2-hydroxybenzoato}tin(IV) complexes: An unprecedented examples of coordination expansion of skew trapezoidal geometry”, *10th Symposium on Modern Trends in Inorganic Chemistry (MTIC-X)*, Indian Instiute of Technology, Bombay, 15-17 December.
21. **Basu Baul, T. S.,** Mizar, A., Lycka, A., Rivarola, E., Scopelliti, M., Holčapek, M, De Vos, D., Englert, U. (2005): Diphenyltin(IV) complexes with substituted 5-azoxines: Synthesis, structural characterization and assessment *in vitro* cytotoxicity, *XXXIII Conference of the Division of Inorganic Chemistry of Italian Chemical Society, Siena, Tuscany, Italy*, 11-16, July.
22. **Basu Baul, T. S.,** Singh, K. S., Holčapek, M, Jirásko, R., Rivarola, E., Ruisi, G., Linden, A. (2005): Synthesis and characterization of triphenyltin(IV) complexes of azocarboxylates. Crystal structures of a ligand HO₂CC₆H₄{N=N(C₆H₃-4-OH(C(H)=NC₆H₄CH₃-4))}-*o* hemihydrate, and triphenyltin complexes Ph₃Sn[O₂CC₆H₄{N=N(C₆H₃-4-OH(C(H)=NC₆H₄X-4))}-*o*] (X = Br, Me (polymeric) and OMe (dimeric)), *XXXIII Conference of the Division of Inorganic Chemistry of Italian Chemical Society, Siena, Tuscany, Italy*, 11-16, July.
23. Basu, S., **Basu Baul, T. S.** (2006): Molecular architectures in organotin(IV) carboxylates: Syntheses, structures and surprises, National Symposium on Advances in Chemistry and Environmental Impact, Department of Chemistry, North Eastern Hill university, Shillong, 2-3, November, 2006.
24. Basu, S., **Basu Baul, T. S.,** de Vos, D. (2007): Organotin(IV) carboxylates: Composition tailored architectures versus cytotoxic potential, *International Conference on Advances in Drug Discovery Research, 11th ISCBC-2007*, Aurangabad, 24-26, February.
25. **Basu Baul, T. S.** (2007): Molecular Architectures in Organotin(IV) Carboxylates Derived from Schiff Bases Containing Amino Acid Moiety, *The Twelfth International Conference on the Coordination and Organometallic Chemistry of Germanium, Tin and Lead, ICCOC-GTL-12*, National University of Ireland, Galway, 9-13, July.
26. Basu, S., Mizar, A., **Basu Baul, T.S.,** Rivarola, E. (2007): ¹¹⁹Sn Mossbauer characterization of self assembled organotin(IV) complexes with Schiff bases containing amino acetate skeletons, *International Conference on the Applications of the Mössbauer Effect*, Indian Institute of Technology Kanpur, India, 14-19, October.

Invited Lectures:

27. **Basu Baul, T. S.** (2010): Organotin(IV) carboxylates: Synthetic adventures, Opportunity and Challenges, *National Conference on Frontiers in Chemical Sciences FICS-2010*, Department of Chemistry, Indian Institute of Technology, Guwahati, 3-4 December.
28. **Basu Baul, T. S.** (2010): Composition Tailored Architectures in Organotin(IV) Carboxylates: Syntheses, Structures and Cytotoxic Potential, *National Seminar on Global Trends in Modern Chemistry NSGTMC-2010*, Department of Chemistry, St. Anthony's College, Shillong, 7-8, December.
29. **Basu Baul, T. S.** (2011): Exploring Structural Possibilities in Organotin(IV) 2-{{(E)-1-(2-hydroxyaryl)alkylidene}amino}- acetate Systems: Synthesis, Architectures and Cytotoxic Efficacy, *Recent Advances in Synthesis and Catalysis, RASC-11*, Department of Chemistry, Dibrugarh University, Dibrugarh, 10-12, February.