Complete List of Publications of Professor M. Palaniandavar (180)

Books

1. Ruthenium Complexes of Thioether Ligands, M. Palaniandavar and M. Murali, VDM Verlag 2010. ISBN 978-3-639-23888-4.

2. Copper and Iron Complexes in Organised Assemblies, M. Palaniandavar, and N. Anitha, VDM Verlag 2010. ISBN 978-3-639-26702-0.

3. Book Chapter: Novel Coordination Complexes of a Few Essential Trace Metals: Cytotoxic Properties and Lead Identification for Drug Development for Cancer, A. Riyasdeen, R. Loganathan, M. Palaniandvar, M. A. Akbarsha, P.R. Sudhakaran (ed.), *Perspectives in Cancer Prevention: Translational Cancer Research*, Springer India 2014.ISBN 978-81-322-1532-5, 2013.

Reviews

1. Makoto Chikira, Chew Hee Ng and Mallayan Palaniandavar (**2015***)*,Interaction of DNA with Simple and Mixed Ligand Copper(II) Complexes of 1,10-Phenanthrolines as Studied by DNA-Fiber EPR Spectroscopy,*Int. J. Mol. Sci.*,**16**, 22754.
2. Palaniandavar M and Mayilmurugan R (**2007**) Mononuclear Non-heme Iron(III) Complexes as Functional Models for Catechol Dioxygenases, *C. R. Chim*., **10**, 366.
3. M. Ganeshpandian, and M. Palaniandavar, 5,6-Dimethyl-1,10-phenanthroline: A Hydrophobic Versatile Ligand for Tuning the Biological Activity of Metal based Anticancer Agents,*to be submitted.*
4. M. Sankaralingam, M. Balamurugan,and M. Palaniandavar, Alkane Hydroxylations Catalyzed by Nickel(II) Complexes: Ligand Steric, Electronic and Topology Effects on Efficiency and Selectivity, *Coordination Chemistry Reviews, submitted*.
5. Mononuclear Non-heme Iron(III) Complexes as Biomimetic as Models for Dioxygenases, M. Sankaralingamand M. Palaniandavar, *to be submitted*.

Research Papers Published(175)

[Chem. Eur. J., 2; Chem. Comm., 1; Bioconj. Chem. (*ACS*), 1; Inorg. Chem. (*ACS*), 20; Dalton Trans (*RSC*), 42; J. Inorg. Biochem., 36, RSC Advances (*RSC*), 2; Eur. J. Inorg. Chem.,2; Inorg. Chim. Acta, 22; Polyhedron, 5;Technical Reviews, 5; Misc., 38; Articles cited more than 100 times: 20, *starred]

2018

1. N. Anitha,N. Saravanan, T. Ajaykamal, E. Suresh and M. Palaniandavar, (**2019**) Catecholase Activity of Mononuclear Copper(II) Complexes of Tridentate Ligands in Aqueous and Aqueous Micellar Media: Influence of Stereoelectronic Factors on Catalytic Activity, *Inorg. Chim. Acta*, 485, 98-111.

2. M. Ganeshpandian, M. Palaniandavar, M. Amsaveni, S. K. Ghosh, A. Riyasdeen, M. A. Akbarsha, (**2018**) Ruthenium(II)–arene Complexes of Diimines: Effect of Diimine Intercalation and Hydrophobicity on DNA and Protein Binding and Cytotoxicity, *App. Org. Met. Chemistry*, **32**, 4154.

3. J. Ritambhara, M. Ansari, G. Rajaraman, M. Palaniandavar, R. Murugavel,An Unprecedented Copper(II) Complex with Topoquinone-like Moiety as aStructural and Functional Mimic for Copper Amine Oxidase: Role of copper(II) in the Genesis and Amine Oxidase Activity, *ACS Catalysis*,under revision.

4. N. Saravanan and M. Palaniandavar, Mn(II) Complexes of Tripodal 5N Ligands as Epoxidation Catalysts: Ligand Stereoelectronic Effects on Reaction Intermediates, *submitted.*

5. Winaki P Sohtun,ThemmilaKhamrang, A. Kannan, D. Saravanan, MarappanVelusamy, Mallayan Palaniandavar, Iron(III) bis-complexes of S-methyldithiocarbazates: Synthesis, structure and spectroscopic properties and their cytotoxicity, *submitted*.

6. Mitu Sharma,M. Ganesh Pandian,Airy Sanjeev,M. Velusamy,Venkata Satish Kumar Mattaparthi,Nashreen S. Islamand Mallayan Palaniandavar, Bis- and Mixed-Ligand Copper(II) Complexes of Nalidixic Acid the Antibacterial Drug: Mode of Nalidate Coordination Determines DNA Binding and Cleavage and Cytotoxicity, *submitted*.

2017

7.R. Loganathan,M. Ganeshpandian, N. S. P. Bhuvanesh, M. Palaniandavar, M. Amsaveni, S. K. Ghosh, A. Riyasdeen, and M. A. Akbarsha, (**2017**) DNA and Protein Binding, Double-strand DNA Cleavage and Cytotoxicity of Mixed Ligand Copper(II) Complexes of the Antibacterial Drug Nalidixic Acid,*J. Inorg. Biochem.*,174, 1-13.

8. M. Sankaralingam, M. Palaniandavar and V. Prabha, (**2017**) Novel Nickel(II) Complexes of Sterically Modified N4 Ligands: Effect of Ligand Stereoelectronic Factors and Solvent of Coordination on Nickel(II) Spin-state and Catalytic Alkane Hydoxylation, *Dalton Trans.*, 46, 7181.

2016

9. M. Sankaralingam,V. Prabha, and M. Palaniandavar, **2016**,Nickel(II) Complexes of linear N4 Ligands for Alkane Hydroxylationusing *m*-CPBA as an Oxidant: Effect of Cyclic vs Acyclic Diamine, *Dalton Trans.*, **45**, 11422-11436.

10. M. Balamurugan, E. Suresh and M. Palaniandavar (**2016**) Non-heme μ-Oxo- and bis(μ-carboxylato)-bridged diiron(III) complexes of a 3N ligand as catalysts for alkane hydroxylation: stereoelectronic factors of carboxylate bridges determine the catalytic efficiency, *Dalton Trans.*, **2016**, **45**, 11422-11436.

11. T. Khamrang, R. Kartikeyan, M. Velusamy, V. Rajendiran, R. Dhivya, M. A. Akbarsha, and M. Palaniandavar, (**2016**) Synthesis, Structures, and DNA and Protein Binding of Ruthenium(II)-p-Cymene Complexes of Substituted Pyridylimidazo[1,5-a]pyridine: Enhanced Cytotoxicity of a Complex with Ligand-appended Phenothiazine a Prototypical Pharmaceutical Lead Molecule, *RSC Advances*, 115,114143-114158.

2015

12.Makoto Chikira, Chew Hee Ng and Mallayan Palaniandavar (**2015***)*,Interaction of DNA with Simple and Mixed Ligand Copper(II) Complexes of 1,10-Phenanthrolines as Studied by DNA-Fiber EPR Spectroscopy,*Int. J. Mol. Sci.*,**16**, 22754.

13.R. Dhivya, P. Jaividhya, A. Riyasdeen, M. Palaniandavar, G. Mathan, M. A. Akbarsha (**2015**), In vitro antiproliferative and apoptosis-inducing properties of a mononuclear copper(II) Complex with dppz ligand in two genotypically different breast cancer cell lines, *Biometals*, **28**, 929.

14. Jaividhya P, Ganeshpandian M, Dhivya R, Akbarsha M A and Palaniandavar M (**2015**) Fluorescent Mixed Ligand Copper(II) Complexes of Anthracene-appended Schiff Bases: Studies on DNA Binding, Nuclease Activity and Cytotoxicity, *Dalton Trans*., 44, 11997.

15. Loganathan R, Ramakrishnan S, Ganeshpandian M, Bhuvanesh N and Palaniandavar M, Riyasdeen, A and Akbarsha, M A (**2015**) Mixed Ligand Copper(II) Dicarboxylate Complexes: Role of Co-ligand on DNA Binding and Double-strand DNA Cleavage and on Protein Binding and Cytotoxicity, *Dalton Trans*., **44**, 10210.

2014

16. Balamurugan M, Prabha V and Palaniandavar M (**2014**) Iron(III) Complexes of Tripodal Tetradentate 4N Ligands as Functional Models for Catechol Dioxygenase Enzymes: Electronic vs Steric effect on Extradiol Cleavage, *Dalton Trans.*, **43**, 14653.

17. Sankaralingam, M, Saravanan, N, Anitha N, Suresh, E, and Palaniandavar M (**2014**) Biomimetic Iron(III) Complexes of Facially and Meridionally Coordinating Tridentate 3N Ligands: Tuning of Regioselective Extradiol Dioxygenase Activity in Organized Assemblies, *Dalton Trans*., **43**, 6828.

18. Loganathan, R, Ramakrishnan, S, Suresh, E, Palaniandavar, M, Riyasdeen, A and Akbarsha, M A (**2014**) Mixed Ligand μ-Phenoxo-bridged DinuclearCopper(II) Complexes With Diimine Co-ligands: Efficient Chemical Nuclease and Protease Activities and Cytotoxicity, *Dalton Trans*., **43**, 6177.

19. Sankaralingam M and Palaniandavar M (**2014**) Tuning the Olefin Epoxidation by Manganese(III) Complexes of Bisphenolate Ligands: Role of Lewis basicity of Ligands on Reactivity, *Dalton Trans*.,**43**, 538.

20. Ganeshpandian M, Loganathan R, Suresh E, Riyasdeen A, Akbarsha M A and Palaniandavar M (**2014**) New Ruthenium(II) Arene Complexes of Anthracenyl-appended Diazacycloalkanes: Effect of Ligand Intercalation and Hydrophobicity on DNA and Protein Binding and Cleavage and Anticancer Activity, *Dalton Trans*.,2014, **43**,1203.

21. Sankaralingam, M, Balamurugan, M, Prabha, V, Suresh, C, Palaniandavar, M, (**2014**) Nickel(II) Complexes of Tripodal 5N Ligands as Catalysts for Alkane Hydroxylation using m-CPBA as Oxidant: A Combined Experimental and Computational Study, *Chem. Eur. J*, **20**, 11346

22. Rajarajeswari C, Ganeshpandian M, Palaniandavar M, Riyasdeen A and Akbarsha M A (**2014**) Mixed Ligand Copper(II) Complexes of 1,10-Phenanthroline with Tridentate Phenolate/ Pyridyl/(Benz)imidazolyl Schiff Base Ligand: Covalent vs Non-covalent DNA Binding and Cleavage and Cytotoxicity, *J. Inorg. Biochem*., **140**, 255

23. Ganeshpandian M, Ramakrishnan S, Palaniandavar M, Riyasdeen A and Akbarsha

M A (**2014**) Mixed Ligand Copper(II) Complexes of 2,9-Dimethyl-1,10-phenanthroline: Tridentate 3N Primary Ligands Determine DNA Binding and Cleavage and Cytotoxicity, *J. Inorg. Biochem*., **140**, 202.

24. Saravanan N Sankaralingam M and Palaniandavar M (**2014**) Bioinspired Manganese(II) Complexes of Tetradentate 4N Ligands for Catalytic Olefin Epoxidation: Effect of Nucleophilicity of Peroxo Complexes On Reactivity *RSC Advances*.,**4**, 12000.

25. Sankaralingam M and Palaniandavar M (**2014**) Diiron(III) Complexes of Tridentate 3N Ligands as Functional Models for Methane Monooxygenases: Effect of Capping Ligand on Hydroxylation of Alkanes, *Polyhedron*, **67**, 171.

2013

26. Rajarajeswari C, Loganathan R, Palaniandavar M, Suresh E, Riyasdeen A and Akbarsha M A (**2013**) Copper(II) complexes with 3N and 2NO donor ligands: Synthesis, Structures and Chemical Nuclease and Anticancer Activities, *Dalton Trans*., **42**, 8347.

27. Sankaralingam M, Prabha V, Suresh E, Palaniandavar M (**2013**) Mixed Ligand Nickel(II) Complexes as Catalysts for Alkane Hydroxylation using m- Chloroperbenzoic Acid as Oxidant, *Inorg. Chim. Acta*, **407**, 98.

28.Ganeshpandian M, Loganathan R, Ramakrishnan S, Riyasdeen A, Akbarsha M A and Palaniandavar M (**2013**) Interaction of Mixed Ligand Copper(II) Complexes with CT DNA and BSA: Effect of Primary Ligand Hydrophobicity on DNA and protein Binding and Cleavage and Anticancer activities, *Polyhedron*, *52*, 929-938. (**Invited Article for Alfred Werner Special Issue**, The most downloaded article from SciVerse ScienceDirect & recognized as "Top-10 most cited articles for the year 2013-2014")

29. Novel Coordination Complexes of a Few Essential Trace Metals: Cytotoxic Properties and Lead Identification for Drug Development for Cancer, Chapter 11, Perspectives in Cancer Prevention-Translational Cancer Research, ISBN 978-81-322-1532-5, **2013.**

2012

30. *Loganathan R, Ramakrishnan S, Suresh E, Riyasdeen A, Akbarsha M A and Palaniandavar M (**2012**) Mixed Ligand Copper(II) Complexes of *N*,*N*-Bis(benzimidazol-2-ylmethyl)amine (BBA) withDiimine Co-ligands: Efficient Chemical Nuclease and Protease Activities and Cytotoxicity, *Inorg. Chem.*, **51**, 5512. (Cit. 104)

31. Rajendiran V, Palaniandavar M, Periasamy V S and Akbarsha M A (**2012**) New [Ru(5,6-dmp/3,4,7,8-tmp)$_2$(diimine)]$^{2+}$ complexes: Non-covalent DNA and protein binding, anticancer activity and fluorescent probes for nuclear and protein components, *J. Inorg. Biochem.*, **116,** 151.

32. Jaividhya P,Dhivya R, Akbarsha M A and Palaniandavar M (**2012**) Efficient DNA Cleavage Mediated by Mononuclear Mixed Ligand Copper(II) Phenolate Complexes: The Role of Co-Ligand Planarity on DNA Binding and Cleavage and Anticancer Activity, *J. Inorg. Biochem.*, **114**, 94. (The most downloaded article from SciVerse ScienceDirect)

33.Saravanan N, Suresh E, and Palaniandavar M, **(2012)** Manganese(II) Complexes of

Pyridyl-Appended Diazacycloalkanes: Synthesis, Characterization and Application to Catalytic Olefin Oxidation, *Inorg. Chim. Acta*, **385**, 100.

2011

34. Ramakrishnan S, Shakthipriya D, Palaniandavar M, Suresh E, Periasamy V S, and Akbarsha M (**2011**) Binding and Cleavage and Anticancer Activities of Mixed Ligand Dinuclear Copper(II) Complexes of Diimine Co-ligands, *Inorg. Chem*., **50**, 6458.

35. Balamurugan M, Mayilmurugan R, Suresh E and Palaniandavar M (**2011**) Selective Alkane Oxidation by Mononuclear Ni(II) Complexes of Tripodal 4N Ligands Using *m*-CPBA as co-oxidant, *Dalton Trans*., **40**, 9413**.**

36.Sundaravel K, Sankaralingam M, Suresh E and Palaniandavar M (**2011**) Biomimetic Iron(III) Complexes of N3O and N3O2 Donor Ligands: Protonation of Coordinated Ethanolate Donor Enhances Dioxygenase Activity, *Dalton Trans.*, **40**, 8444.

37. Sundaravel K, Suresh E, Palaniandavar M (**2011**) Iron(III) Complexes of 3N and 3NO Donor Ligands as Functional Models for Catechol Dioxygenases, *Dalton Trans.*, **40**, 8092

38. Ramakrishnan R, Suresh E, Riyasdeen A, Akbarsha M A, and Palaniandavar M (**2011**) DNA binding, prominent DNA cleavage and efficient anticancer activities of Tris(diimine) iron(II) complexes, *Dalton Trans.*, **40**, 3524.

39. Ramakrishnan R, Suresh E, Riyasdeen A, Akbarsha M A, and Palaniandavar M (**2011**) Interaction of *rac*-$[M(diimine)_3]^{2+}$ (M = Co, Ni) complexes with CT DNA: role of 5,6-dmp ligand on DNA binding and cleavage and cytotoxicity, *Dalton Trans.*, **40**, 3245.

40. Anitha N and Palaniandavar M (**2011**) Mononuclear iron(III) complexes of 3N ligands in organized assemblies: spectral and redox properties and attainment of regioselective extradiol dioxygenase activity, *Dalton Trans*., **40**, 1888.

41. Mayilmurugan R, Harum B N, Volpe M, Sax A F, Palaniandavar M and Mösch-Zanetti N C (**2011**) Mechanistic Insight into the Reactivity of Oxotransferases by Novel Asymmetric Dioxo-molybdenum(VI) Model Complexes, *Chem. Eur. J.*,**17**, 704.

42. Visvaganesan K, Ramachitra S and Palaniandavar M (**2011**) Functional Models for Enzyme-Substrate Adducts of Catechol Dioxygenase Enzymes: Lewis Basicity of Facially Coordinating Tridentate Phenolate Ligands Tune the Rate of Dioxygenation and Product Selectivity, *Inorg. Chim. Acta*, **378**, 87.

43. Dhanalakshmi T, Suresh E and Palaniandavar M (**2011**) Olefin Aziridination by Copper(II) Complexes: Effect of Cu(II)/Cu(I) Redox Potentials on Catalytic Activity, *Inorg. Chim. Acta*, **365**, 143.

44. Dhanalakshmi. T, Loganathan R, Suresh. E, Stoeckli-Evans. E, and Palaniandavar M (**2011**) Interaction of Copper(II) Complexes with Bis(p-nitrophenyl)phosphate: Structural and Spectral Studies, *Inorg. Chim. Acta*, **372**, 237.

45. Palaniandavar M and Visvaganesan K, (**2011**) Mononuclear Non-heme Iron(III) Complexes of Linear and Tripodal Tridentate Ligands as Functional Models for Catechol Dioxygenases: Effect of *N*-alkyl Substitution on Regioselectivity and Reaction Rate. *J.*

Chem. Sci., **123**, 145.

46. Anitha N, Balamurugan M and Palaniandavar. M (**2011**) Spectral and Electrochemical Quenching Studies of Bis(diimine)copper(II) Complexes in Anionic, Cationic and Nonionic Micelles, *J. Colloid and Interfac. Sci*., **362**, 243.

2010

47. Mayilmurugan R, Sankaralingam M, Suresh E and Palaniandavar M (**2010**) Novel Square Pyramidal Iron(III) Complexes of Linear Tetradentate Bis(phenolate) Ligands as Structural and Reactive Models for Intradiol-cleaving 3,4-PCD Enzymes: Quinone Formation Vs Intradiol Cleavage, *Dalton Trans*., **39**, 9611.

48. Anitha N and Palaniandavar M (**2010**) Selective Extradiol Cleavage of Catechol Achieved in Organized Assemblies Using [Fe(BPA)Cl3] (BPA = bis(pyridylmethyl)amine), *Dalton Trans. Commun.*, 1195.

49. Rajendiran V, Palaniandavar M,Periasamy V S and Akbarsha M A (**2010**) $[Ru(phen)_2(dppz)]^{2+}$ as an Efficient Optical Probe for Staining Nuclear Components, *J. Inorg. Biochem.*,**104**, 217.

50. Sundaravel K, Suresh E and Palaniandavar M (**2010**) Iron(III) Complexes of Linear Tridentate 3N Ligands as Models for Catechol Dioxygenases: Stereoelectronic Effects of PyrazoleCoordination, *Inorg. Chim. Acta*, **363**, 2768.

51. Ruthenium Complexes of Thioether Ligands Synthesis, Structures and Spectral and Electrochemical Properties, Palaniandavar Mallayan, Dr M. Murali, *VDM Verlag Dr Muller*, **2010**, ISBN 978-3-639-23888-4.

52. Copper and Iron Complexes in Organised Assemblies: Structures, Spectral and Electrochemical Properties and Biomimetic Dioxygen Activating Reactions in Micellar Media, Palaniandavar Mallayan, Anitha Natarajan, *VDM Verlag Dr Mullar*, **2010,** ISBN 978-3-639-26702-0.

2009

53. Mayilmurugan R, Visvaganesan K, Suresh E and Palaniandavar M (**2009**) Iron(III) Complexes of Tripodal Monophenolate Ligands as Models for Non-heme Catechol Dioxygenase Enzymes: Correlation of Dioxygenase Activity with Ligand Stereoelectronic Properties, *Inorg. Chem*., **48**, 8771

54. *Ramakrishnan S, Palaniandavar M, Periasamy V S, Akbarsha M A, Srinag B S and Krishnamurthy H (**2009**), Induction of Cell Death by DNA Binding and Cleaving Ternary Copper(II) Complexes of L-tyrosine and Diimines: Role of Co-ligands on Anticancer activity, *Inorg. Chem*., **48**, 1309. (Cit. 163)

55. Dhanalakshmi T, Suresh E and Palaniandavar M (**2009**) Synthesis, Structure, Spectra and Reactivity of Iron(III) Complexes of Imidazole and Pyrazole Containing Ligands as Functional Models for Catechol Dioxygenases, *Dalton Trans*., 8317.

56. Mayilmurugan R and Palaniandavar M (**2009**) Chemoselective Hydroxylation of Alkanes

and Alkenes Catalyzed by Dinuclearμ-oxo-Bridged Iron(III) Complexes, *Dalton Trans.*, 5101.

57. Visvaganesan K, Suresh E and Palaniandavar M (**2009**) Involvement of Mononuclear Iron(III) species in the Highly Selective Alkane Hydroxylation Catalyzed by (μ-oxo)-bis-(μ-carboxylato)-bridged Diiron(III) complexes in Catalysis, *Dalton Trans.*, 3814.

58. Murali M, Mayilmurugan R and Palaniandavar M (**2009**), Synthesis, Structure and Spectral And Electrochemical Properties of New Mononuclear Ruthenium(III) Complexes of Tris(benzimidazol-2-ylmethyl)amine: Role of Steric Hindrance in Tuning the Catalytic Oxidation Activity, *Eur. J. Inorg. Chem.*, 3238.

59. Sundaravel K, Suresh E and Palaniandavar M (**2009**) Synthesis, Structures, Spectral and Electrochemical Properties of Copper(II) Complexes of Sterically Hindered Schiff Base Ligands, *Inorg. Chim. Acta*, **362**, 199.

2008

60. Mayilmurugan R, Stoeckli-Evans H and Palaniandavar M(**2008**) Novel Iron(III) Complexes of Sterically Hindered 4N Ligands: Regioselectivity in Biomimetic Extradiol Cleavage of Catechols, *Inorg. Chem.*, **47**, 6645.

61. Sundaravel K, Dhanalakshmi T, Suresh E and Palaniandavar M. (**2008**) Synthesis, Structure, Spectra and Reactivity of Iron(III) Complexes of Facially Coordinating and Sterically Hindering 3N Ligands as Models for Catechol Dioxygenases, *Dalton Trans*., 7012.

62. Ramakrishnan S and Palaniandavar M (**2008**) Interaction of *rac*-$[Cu(diimine)_3]^{2+}$ and *rac*-$[Zn(diimine)_3]^{2+}$ Complexes with CT DNA: Effect of Fluxional Cu(II) Geometry on DNA Binding, Ligand–Promoted Exciton Coupling and Prominent DNA Cleavage, *Dalton Trans*., 3866.

63. Rajendiran V, Murali M, Suresh E, Palaniandavar M,Periasamy V S and Akbarsha M A (**2008**) Non-covalent DNA binding and cytotoxicity of certain mixed ligand ruthenium(II) complexes of 2,2'-dipyridylamine and diimines,*Dalton Trans.*, 2157. (Included in Contents List of **Chemical Biology** journal of RSC, 2008)

64. Rajendiran V, Murali M, Suresh E, Sinha S, Somasundaram K and Palaniandavar M (**2008**) Mixed ligand ruthenium(II) complexes of bis(pyrid-2-yl)-/bis(benzimidazol-2-yl)-dithioether and diimines: Study of non-covalent DNA binding and cytotoxicity,*Dalton Trans.*, (1), 148. (Included in Contents List of **Chemical Biology** journal of RSC, 2008, Issue 2)

2007

65. Visvaganesan K, Mayilmurugan R, Suresh E and Palaniandavar M (**2007**) Iron(III) Complexes of Tridentate 3N Ligands as Functional Models for Catechol Dioxygenases: The Role of Ligand *N*-alkyl Substitution and Solvent on Reaction Rate and Product Selectivity, *Inorg. Chem.*, **46**, 10294.

66. *Rajendiran V, Karthik R, Palaniandavar M, Stoeckli-Evans M, Periasamy V S, Akbarsha M A, Srinag B S and Krishnamurthy H (**2007**) Mixed-Ligand Copper(II)-phenolate Complexes: Effect of Coligand on Enhanced DNA and Protein Binding, DNA Cleavage and Anticancer Activity, *Inorg. Chem.*, **46**, 8208. (Cit. 363)

67. Mayilmurugan R, Suresh E and Palaniandavar M (**2007**) A New Tripodal Iron(III) Monophenolate Complex: Effects of Ligand Basicity, Steric Hindrance, and Solvent on Regioselective Extradiol Cleavage, *Inorg. Chem*., **46**, 6038.

68. Rajendiran V, Palaniandavar M, Swaminathan P and Uma L (**2007**) Cleavage of Proteins by a Mixed-Ligand Copper(II) Phenolate Complex: Hydrophobicity of the DiimineColigand Promotes Cleavage, *Inorg. Chem*.**46**, 10446. (*Communication).*

69. Murali M and Palaniandavar M (**2007**) Synthesis, spectral and electrochemical properties of mixed-ligand ruthenium(II) complexes of bis(pyrid-2-yl)- and bis(benzimidazol-2-yl)-dithioether ligands: Effect of an asymmetric diimine co-ligand, *Polyhedron* **26**, 3980.

70. Palaniandavar M and Mayilmurugan R (**2007**) Mononuclear Non-heme Iron(III) Complexes as Functional Models for Catechol Dioxygenases, *C. R. Chim*., **10**, 366.

2006

71. Uma Maheswari P, Rajendiran V, Stoeckli-Evans H and Palaniandavar M (**2006**) Interaction of *rac*-$[Ru(5,6\text{-}dmp)_3]^{2+}$ with DNA: Enantiospecific DNA Binding and Ligand-Promoted Exciton Coupling, *Inorg. Chem*., **45**, 37.

72. Murali M and Palaniandavar M (**2006**) Synthesis, structure and spectral and redox properties of new mixed ligand monomeric and dimeric Ru(II) complexes: predominant formation of the "*cis*-**α**"diastereoisomer and unusual ^{3}MC emission by dimeric complexes, *Dalton Trans*., (5), 730.

73. Dhanalakshmi T, Bhuvaneshwari M and Palaniandavar M (**2006**) Iron(III) complexes of certain meridionally coordinating tridentate ligands as models forNon-heme iron enzymes: The role of carboxylate coordination, *J. Inorg. Biochem.*, **100,** 1527.

74. *Selvakumar B, Rajendiran V,Stoeckli-Evans H, Umamaheswari P and Palaniandavar M (**2006**) Structures, Spectra, and DNA Binding Properties of Mixed Ligand Copper(II) Complexes of Iminodiacetic Acid: The Novel Role of Diimine Conformation and Co-ligands on DNA Hydrolytic and Oxidative Double Strand DNA Cleavage, *J. Inorg. Biochem.*,**100**, 316. (Cit. 235)

75. Uma Maheswari P, Rajendiran V, Palaniandavar M, Parthasarathi R and Subramanian V (**2006**) Synthesis, Characterization and DNA Binding Properties of *rac*-$[Ru(5,6\text{-}dmp)_2(dppz)]^{2+}$- Enantiopreferential DNA Binding and co-ligand Promoted Extensive Exciton Coupling, *J. Inorg. Biochem.*,**100,** 3.

76. Dhanalakshmi T, Suresh E, Stoeckli-Evans H and Palaniandavar M (**2006**) New Copper Complexes as efficient catalyst olefin aziridination: The Effect of Ligand Steric Hindrance on Reactivity, *Eur. J. Inorg. Chem.*, 4687.

77. Uma Maheswari P, Rajendiran V, Palaniandavar M, Thomas R and Kulkarni G U (**2006**) Mixed ligand ruthenium(II) complexes of 5,6- dimethyl-1,10-phenanthroline: The role of ligand hydrophobicity on DNA binding of the complexes, *Inorg. Chim. Acta*,**359**, 4601.

78. Balamurugan R, Stoeckli-Evans H, Neuburger M and Palaniandavar M (**2006**) Axial

v*ersus* Equatorial Coordination of Thioether Sulfur in Copper(II) Complexes of 2-Pyridyl–*N*-(2'-methylthiophenyl)-methyleneimine: Role of Chelating Bidentate and Tridentate Ligands, *Inorg. Chim. Acta*,**359**, 1103.

79. Balamurugan R, Palaniandavar M and Halcrow M A (**2006**) Copper(II) Complexes of Sterically Hindered Schiff Base Ligands: Synthesis, Structure Spectra and Electro chemistry, *Polyhedron*,**25**, 1077.

80. Palaniandavar M, Velusamy M and Mayilmurugan R (**2006**) Iron(III) Complexes of Certain Tetradentate Phenolate Ligands as Functional Models for Catechol Dioxygenases, *J. Chem. Sciences*, **118**, 601.

2005

81. *Tamil Selvi P,Stoeckli-Evans H and Palaniandavar M (**2005**) Synthesis, Structure and DNA binding properties of Cobalt(III) bis-complexes of Isoindolines, *J. Inorg. Biochem.*, **99**, 2110. (Cit. 100)

82. *Hirohama T, Kuranuki Y, Ebina E, Sugizaki T, Arii H, Chikira M, Tamil Selvi P and Palaniandavar (**2005**) Copper(II) Complexes of 1,10-phenanthroline-derived Ligands: Studies on DNA Binding Properties and Nuclease Activity, *J. Inorg. Biochem.*,**99**, 1205. (**Top 25 Hottest Articles**, Cit. 152)

83. Velusamy M, Mayilmurugan R and Palaniandavar M (**2005**) Functional Models for Catechol Dioxygenases: Iron(III) Complexes of Certain *cis*-facially coordinating linear 3N Ligands, *J. Inorg. Biochem.*,**99**, 1032. (**Top 25 Hottest Articles**)

84. *Raja A, Rajendiran V, Uma Maheswari P, Balamurugan R, Kilner C A, Halcrow M A and Palaniandavar M (**2005**) Copper(II) Complexes of Pyridylmethylethylenediamines: Role of ligand StericHindrance on DNA Binding and Cleavage, *J. Inorg. Biochem.* ,**99**, 1717. (**Top 25 Hottest Articles, Cit. 114**)

85. *Ramakrishnan S, and Palaniandavar M, (**2005**) Mixed Ligand Copper(II) complexes of Dipicolylamine and 1,10-phenanthrolines: The Role of Diimines on the Interaction of the Complexes with DNA, *J. Chem. Sci.*,**117**, 179. (Cit. 100)

86. Uma Maheswari P, Rajendiran V, Palaniandavar M, Parthasarathi R and Subramanian V (**2005**) Enantiopreferential DNA Binding: $[(5,6\text{-dmp})_2\text{Ru}(\mu\text{-bpm})\text{Ru}(5,6\text{-dmp})_2]^{4+}$ induces B to Z Conformational Change on DNA, *Bull. Chem. Soc. Jp.*,**78**, 835.

87. Uma Maheswari P and Palaniandavar M (**2005**) Excited State Properties of Certain Ruthenium(II) Polypyridyl Complexes Bound to DNA: Molecular Light Switches, *ISRAPS Bulletin*, 15-19.

2004

88. Velusamy M, Mayilmurugan R and Palaniandavar M (**2004**) Iron(III) Complexes of Sterically Hindered Tetradentate Monophenolate Ligands as Functional Models for Catechol 1,2-Dioxygenases: The Role of Ligand Stereoelectronic Properties, *Inorg. Chem.*, **43**, 6284.

89.* Uma Maheswari P and Palaniandavar M (**2004**) DNA Binding and Cleavage Properties

of Certain TetrammineRuthenium(II) Complexes Of modified 1.10-phenanthrolines Effect of Hydrogen bonding on DNA-Binding affinity, *J. Inorg. Biochem.*, **98,** 219. **(Cit. 394)**

90. *Balamurugan R, Palaniandavar M, Srinivasa Gopalan R and KulkarniG U (**2004**) Copper(II) Complexes of New PentadentateBis(benzimidazolyl)-Dithioether Ligands: Synthesis, Structure, Spectra and Redox Properties,*Inorg. Chim. Acta*, **357**, 919. (Cit. 132)

91. Uma MaheswariP and Palaniandavar M (**2004**) DNA Binding Properties of Certain Mixed Ligand $[Ru(NH_3)_4(diimine)]Cl_2$ Complexes, *Inorg. Chim. Acta*,**357**, 901.

92.Palaniandavar M (**2004**) Synthetic Models for Electron Transfer Blue Copper Proteins: Synthesis, Structure Spectra and Redox Properties of Certain Copper(II) Complexes of Bis(benzimidazolyl) Thioether Ligands, *Proc. Indian National Sci. Acad.*, **70A**, 293.

2003

93. *Velusamy M, Palaniandavar M, Gopalan R S and Kulkarni G U (**2003**) Novel Iron(III) Complexes of Tripodal and Linear Tetradentate Bis(phenolate) Ligands: Close Relevance to Intradiol-Cleaving Catechol Dioxygenases, *Inorg. Chem.*, **42**, 8283. (Cit. 106)

94. Leaver S A, Palaniandavar M, Kilner C A and Halcrow M A (**2003**) A new synthesis of bis(2-{pyrid-2-yl}ethyl)amine (L^H) from bis(2-{pyrid-2-yl}ethyl)hydroxylamine (L^{OH}), and the copper-dependent reduction of L^{OH} toL^H,*Dalton Trans.*, (22), 4224.

95. Vaidyanathan M, Palaniandavar M and Srinivasa Gopalan R (**2003**) Synthesis, Structure, Spectra and Redox Behaviour of Copper(II) Complexes of Certain Bis(phenolate) Ligands: Phenoxyl Radical Complexes of Copper(II) as Models for Galactose Oxidase, *Indian J. Chem* Sec A, 2210.

2002

96. *Chikira M, Tomizawa Y, Fukita D, Sugizaki T, Sugawara N,Yamazaki T, Sasano A, Shindo H, Palaniandavar M and Antholine W E (**2002**) DNA-Fiber EPR Study of the Orientation of Copper(II) Complexes of 1,10-Phenanthroline and its Derivatives Bound to DNA: Mono(phenanthroline)copper(II) and its Ternary Complexes with Amino Acids, *J. Inorg Biochem.*,**89**, 163. (cit. 134)

97. Tamil Selvi P and Palaniandavar M (**2002**) Spectral and Viscometric Studies on Mixed Ligand Cobalt(III) Complexes of 2,2'-Bipyridine, 1,10-Phenanthrolines Bound to Calf Thymus DNA, *Inorg. Chim. Acta*, **337**, 420.

98. Tamil Selvi P, Murali M, Palaniandavar M, Köckerling M, and Henkel G (**2002**) Biologically Important Ternary Coordination Complexes Containing Cytosine Derivatives: Synthesis, X-Ray Crystal Structure of Tetrakis(N-methylcytosine)copper(II) Perchlorate Dihydrate, Spectral and Electrochemical Behaviour,*Inorg. Chim. Acta*,**340**, 139.

99. Uma Maheswari P and Palaniandavar M (**2002**) Spectroscopic and Voltammetric Studies on Ruthenium(II) Mixed Ligands Complexes of 1.10-phenanthrolines and 2,2'-bipyridyl: Enantioselective Conformational Transition from B to Z DNA, *Indian J. Chem.Sec A*, 96.

100. Velusamy M and Palaniandavar M (**2002**) Iron(III) Complexes of Tripodal Phenolate Ligands as Models for Non-Heme Iron Enzymes. *Indian J. Chem.Sec A* .105.

101. Tamil Selvi P and Palaniandavar M. (**2002**) DNA Binding of Co(III) Polypyridyl Complexes, *Indian J. Chem.Sec A*, 118.

102. Balamurugan R, Palaniandavar M, Srinivasa R and Gopalan KulkarniG U (**2002**) Copper(II) Complexes of Pentadentate Bis(benimidazolyl)-dithioether Ligand as Models for Blue Copper Proteins: Synthesis, structure, Spectra and Redox Properties, *Indian J. Chem. Sec A*, 119.

103. Murali M and Palaniandavar M (**2002**) Synthesis and Characterization of [Ru(NTB)Cl_2] [NTB = tris(benzimidazol-2-ylmethyl)amine] and It's Reactivity Towards Alkane Functionalization, *Indian J. Chem.Sec A,* 120.

104. Gilbert J G, Addison A W, Palaniandavar M and Butcher R J (**2002**) Synthesis of Some Benzimidazole-, Benzothiazole and Pyridine derived Chelating Agents, *J. Heterocyclic Chem.*, ***39***, 399.

2001

105. Balamurugan R, Palaniandavar M and Gopalan R S (**2001**) Trigonal Planar Copper(I) Complex: Synthesis, Structure, and Spectra of a Redox Pair of Novel Copper(II/I) Complexes of Tridentate Bis(benzimidazol-2'-yl) Ligand Framework as Models for Electron-Transfer Copper Proteins, *Inorg. Chem*., **40**, 2246.

106. Vaidyanathan M, Balamurugan R, Sivagnanam U and Palaniandavar M (**2001**) Synthesis, structure, spectra and redox of Cu(II) complexes of chelating bis(benzimidazole)-thioether ligands as models for electron transfer blue copper proteins,*J. Chem. Soc., Dalton Trans.*, (23), 3498.

107. Vaidyanathan M, Palaniandavar M, Srinivasa Gopalan and Kulkarni G U(**2001**) Copper(II) Complexes of Sterically Hindered Phenolate Ligands as Structural Models for the Active Site in Galactose Oxidase and Glyoxal Oxidase: X-ray Crystal Structure and Spectral and Redox Properties, *Inorg. Chim. Acta,* **324**, 241.

2000

108. Palaniandavar M, Mahadevan S, Köckerling M and Henkel G (**2000**) The structural pathways of (dipicolylamine)dinitratocopper(II): an example of the uncommon see-saw stereochemistry, *J. Chem. Soc., Dalton Trans.*, (7), 1151.

109. Vaidyanathan M and Palaniandavar M (**2000**) Models for the Active Site in Galactose Oxidase: Structure, Spectra and Redox of Copper(II) Complexes of Certain Phenolate Ligands, *Proc. Indian Acad. Sci. (Chem. Sci.),* **1**, 112.

1998

110. Vaidyanathan M, Viswanathan R, Palaniandavar M, Balasubramanian T, Prabhaharan P and Muthiah P (**1998**) Copper(II) Complexes with Unusual Axial Phenolate Coordination as Structural Models for the Active Site in Galactose Oxidase: X-ray Crystal Structures and Spectral and Redox Properties of [Cu(bpnp)X] Complexes, *Inorg. Chem.*, **37**, 6418.

111. *Mahadevan S and Palaniandavar M (**1998**) Spectral and Electrochemical Behavior of Copper(II)-Phenanthrolines Bound to Calf Thymus DNA. $[(5,6\text{-dimethyl-OP})_2Cu]^{2+}$ (5,6-dimethyl-OP = 5,6-Dimethyl-1,10-phenanthroline) Induces a Conformational Transition from B to Z DNA, *Inorg. Chem.*, **37**, 3927. (cit. 127)

112. Viswanathan R, Palaniandavar M, Prabakaran P and Muthiah P T (**1998**) Structure, Spectra, and Redox Behavior of a μ-Dimethoxo-Bridged Diferric Complex with an Asymmetric Fe_2O_2 Bridge, *Inorg. Chem.*, **37**, 3881.

113. *Viswanathan R, Palaniandavar M, Balasubramanian T and Muthiah T P (**1998**) Functional Models for Catechol 1,2-Dioxygenase. Synthesis, Structure, Spectra, and Catalytic Activity of Certain Tripodal Iron(III) Complexes, *Inorg. Chem.*, **37**, 2943. (Cit. 103)

114. *Mahadevan S and Palaniandavar M (**1998**) Spectroscopic and Voltammetric Studies on Copper Complexes of 2,9-Dimethyl-1,10-phenanthrolines Bound to Calf Thymus DNA, *Inorg. Chem*. **37**, 693. (Cit. 364)

115. Velusamy M, Palaniandavar M and Justin Thomas K R(**1998**) Cis-Facial Coordination of Bis(pyrid-2-yl)amine (bpma). Synthesis, Structure and Spectral Behaviour of $[Ni(bpma)_2]^{2+}$, *Polyhedron*,**7**, 2179.

116. Velusamy M, Palaniandavar M and Justin Thomas K R(**1998**) Bis(pyrid-2-ylmethyl) Amine-iron(III) Chloride: A Polymorph, *Acta. Cryst. C*,**54,** 741.

1997

117. Vaidyanathan M, Viswanathan R, Palaniandavar M, Balasubramanian T, Prabaharan. P and Muthiah P T (**1997**) Novel Copper(II) Complexes with Unusual Axial Phenolate Coordination as Structural Models for the Active Site in Galactose Oxidase: X-Ray, Crystal Structures and Spectral and Redox Properties of [Cu(bpnp)X] Complexes, *J. Inorg. Biochem.*,**67**, 47.

118. Mahadevan S and Palaniandavar M (**1997**) Spectroscopic and Voltammetric Studies on Copper Complexes of 2,9-Dimethyl-1,10-phenanthrolines Bound to Calf Thymus DNA, *J. Inorg. Biochem.*,**67**, 343.

119. Mahadevan S and Palaniandavar M (**1997**) Spectroscopic and Voltammetric Studies Copper Complexes of Bis(pyrid-2-yl)di/trithia Ligands bound to Calf thymus DNA, *Inorg. Chim. Acta*,**254,** 291.

1996

120. *Palaniandavar M, Butcher R J and Addison A W (**1996**) Dipicolylamine Complexes of Copper(II): Two Different Coordination Geometries in the Same Unit Cell of $Cu(Dipica)_2(BF_4)_2$,*Inorg. Chem.*, **35**, 467. (Cit. 100)

121. Mahadevan S and Palaniandavar M (**1996**) Chiral Discrimination in the Binding of Tris(phenanthroline)ruthenium(II) to Calf Thymus DNA: An Electrochemical Study, *Bioconjugate Chem.*, **7**(1), 138.

122. Mahadevan S and Palaniandavar M (**1996**) $[Cu(5,6\text{-dmp})_2]^{2+}$ selectively and reversibly converts calf thymus DNA from right-handed B to left-handed Z conformation, *Chem.*

Commun., (22), 2547.

123. Uma R, Palaniandavar M Butcher R J (**1996**) Synthesis, structure, spectra and redox interconversions in copper(II) complexes of 5,6-diphenyl-3-(2-pyridyl)-1,2,4-triazine, *J. Chem. Soc., Dalton Trans.*, (10), 2061.

124. Usha S Palaniandavar M (**1996**) Novel, selective and co-operative assembly of cyclodextrins around [1,8-bis(pyridin-2-yl)-3,6-dithiaoctane]copper(II**),** *J. Chem. Soc., Dalton Trans.*,(13), 2609.

125. Viswanathan R, Palaniandavar M, Balasubramanian T and Muthiah P T (**1996**) Synthesis, structure, spectra and redox chemistry of iron(III) complexes of tridentate pyridyl and benzimidazolyl ligands,*J. Chem. Soc., Dalton Trans.*, (12), 2519.

126. Palaniandavar M, Somasundaram I, Lakshminarayanan M and Manohar H (**1996**) Stabilisation of unusual simultaneous binding of four cytosine nucleobases to copper(II) by a novel network of bifurcated hydrogen bonding,*J. Chem. Soc., Dalton Trans.*, (7), 1333.

127. Usha S and Palaniandavar M (**1996**) Electrochemical Behaviour of Certain Biomimetic Copper(II) Complexes in Aqueous and Aqueous Micellar Solutions, *J. Electroanal. Chem.*, **410**, 43.

128. Murali M and Palaniandavar M (**1996**) Novel Mixed Ligand Copper(II) Complexes with Positive Redox Potentials, *Trans. Met. Chem.*, **142**, 21.

129. Viswanathan R and Palaniandavar M (**1996**) Structure, Spectra and Catalytic Functional Models for Catechol 1,2-Dioxygenase. Synthesis Activity of Iron(III) phenolates, *Proc. Ind.,Acad. Sci.*,**235,**108.

130. Viswanathan R, Palaniandavar M, Balasubramanian T and Muthiah P. T (**1996**) X-ray Crystal Structure of a Thioether-Benzimidazole Ligand for Heavy Metal Chelation, *J. Chem. Cryst.*, **26**, 457.

1995

131. Viswanathan R and Palaniandavar M (**1995**) Analogues of the iron-binding site in catechol 1,2-dioxygenase: iron(III) complexes of benzimidazole and pyridine-containing tridentate ligands, *J. Chem. Soc., Dalton Trans.*, (8), 1259.

132. Palaniandavar M, Pandiyan T, Lakshminarayanan M and Manohar H (**1995**) Facial co-ordination in bis[bis(benzimidazol-2-ylmethyl)-amine]copper(II) perchlorate dihydrate. Synthesis, structure, spectra and redox behaviour,*J. Chem. Soc., Dalton Trans.*, (3), 455.

133. Vaidyanathan M, Justin Thomas K R and Palaniandavar M (**1995**) Models for Galactose Oxidase: Copper(II) complexes with axial Phenolate coordination, *J. Inorg. Biochem.*,**59**, 686.

134. Mahadevan S and Palaniandavar M (**1995**) Electrochemical Study of the Enantioselective Interaction of Tris(phen)Ru(II) with Calf thymus DNA, *J. Inorg. Biochem.*,**59**, 161.

135. Pandiyan T, Murali M and Palaniandavar M (**1995**) Copper(II) Thiolate Complexes with

Novel Tripodal and Tetrapodal like Benzimidazoles, *Trans. Met. Chem.*, **20**, 440.

136. Palaniandavar M, Anitha N and Balasubramanian S (**1995**) Spectral and Electrochemical Behaviour of Some Cu(II) Complexes with CuO_4 Chromophore, *Indian J. Chem.*, **34A**, 803.

137. Chikira M, Tomizawa Y, Fukita D, Sugisaki T and Palaniandavar M (**1995**) Orientations of Copper(II) Complexes of 1,10-Phenanthroline and its Derivatives on DNA-Fibres, *Mag. Reson. inMedicine*, **6**, 214.

1994

138. Usa U and Palaniandavar M (**1994**) Influence of chelate-ring size and number of sulfur-donor atoms on spectra and redox behaviour of copper(II) bis(benzimidazolyl) tetra- and penta-thloether complexes, *J. Chem. Soc., Dalton Trans.*, (15), 2277.

139. Uma R, Viswanathan R, Palaniandavar M and Lakshminarayanan M (**1994**) Copper(II) complexes of novel tripodal ligands containing phenolate and benzimidazole/pyridine pendants: synthesis, structure, spectra and electrochemical behaviour,*J. Chem. Soc., Dalton Trans.*, (8),1219.

140. Murali M, Palaniandavar M and Pandiyan T (**1994**) Synthesis, Spectra and Electrochemical Behaviour of Biomimetic Copper(II) Complexes with CuN_5 and CuN_6 Chromophores, *Inorg. Chim. Acta*, **224**, 19.

141. Palaniandavar M and Sujatha M (**1994**) Copper(II)-Disulfide Interaction: Study of the Interaction of Copper(II) with an Imidazole Containing Disulfide, *Trans. Met. Chem.*, **19**, 439.

1993

142. Uma R and Palaniandavar M (**1993**) Copper(II) Disulfide Interaction in Copper(II) Complexes Containing Salicylaldimine and Pyridylaldimine Ligands. Synthesis, Spectra and Redox Behaviour, *Trans. Met. Chem.*, **18**, 629.

143. Usha S, Pandiyan T and Palaniandavar M (**1993**) Synthesis of Certain Multidentate Benzimidazole Derived ligands, *Indian J. Chem.*, **32B**, 572.

144. Somasundaram I and Palaniandavar M(**1993**) Models for Enzyme-Copper-Nucleic Acid Interaction: Interaction of Some Copper Complexes Derived from Salicylaldehyde, Glycine and a Alanine with Adenine and Adenosine, *Indian J. Chem.*,**32A**, 495.

145. Ravi S, Krishna Pillay M and Palaniandavar M (**1993**) Substituent Effect on Carbonyl and Carboxylate Stretching Frequencies of Phenacylbenzoates, *Asian J. Chem.*,**5**, 524.

1992

146. Uma R, Viswanathan R, Palaniandavar M and Lakshminarayanan M (**1992**) An unusual axial co-ordination of phenolate oxygen to copper(II): crystal structure of chloro{2-[bis(2-pyridyl methyl)aminomethyl]-4-nitrophenolato}copper(II),*J. Chem. Soc., Dalton Trans.*, (24), 3563. (Dalton Communication)

147. Pandiyan T, Palaniandavar M, Lakshminarayanan M and Manohar H (**1992**) Structure,

spectra and redox behaviour of copper(II) complexes of bis(benzimidazolyl)diamine ligands, *J. Chem. Soc., Dalton Trans.*, (23), 3377.

148. Palaniandavar M and Uma R (**1992**) Synthesis, Redox Spectra, Interconversions and Catecholase Activity of Copper(II) Complexes of Certain Tripodal Ligands, *J. Inorg Biochem.*, **47**, 57.

149. Pandiyan T and Palaniandavar M (**1992**) Synthesis, Structure and Electron Transfer in Certain Blue Copper Protein Models, *J. Inorg. Biochem.*, **47**, 56.

150. Usha S, Palaniandavar M and Addison A W (**1992**) Spectral and Redox Behaviour of Copper(II) Bis(benzimidazolyl)tetra- and pentathioether Complexes, *J. Inorg. Biochem.*, **47**, 56.

151. Usha S and Palaniandavar M (**1992**) Selective Inclusion of Methylviologen by ß-CD: Effect of CDs on the Reductive Electrochemistry of Methylviologen, *J. Electroanal. Chem.*, **341**, 197.

152. Sivasamy P, Palaniandavar M, Vijayakumar C T and Lederer K (**1992**) The Role of ß-Hydrogen in the Degradation of Polyesters, *PolymerDegradation and Stability*, **38**, 15.

153. Sivasamy P, Vijayakumar C T and Palaniandavar M (**1992**) Studies on Hexolic Anhydride Based Polyesters-III, *Angew. Makromol.Chem.*, **197,**1.

154. Sivasamy P, Vijayakumar C T and Palaniandavar M (**1992**) Studies on Hexolic Anhydride Based Polyesters-II, *Angew. Makromol.Chem.*, **196**, 155.

1991

155. Indira S, Kommiya M K and Palaniandavar M (**1991**) Models for enzyme–copper–nucleic acid interaction: interaction of some copper complexes derived from salicylaldehyde, glycine and α-alanine with cytosine, cytidine and deoxycytidine, *J. Chem. Soc., Dalton Trans.*, (8), 2083.

156. Viswanathan R and Palaniandavar M (**1991**) Models for Catechol 1,2-Dioxygenase: Synthesis, Spectroscopy and Reactivity Studies, *J.Inorg. Biochem.*, **43**, N-044.

157. Uma R and Palaniandavar M (**1991**) Models for Blue Copper Proteins: Copper(II)-Disulfide Interaction in Some Copper Complexes Containing Salicylaldimine and Pyridylaldimine Ligands, *J. Inorg. Biochem.*, **43**, 212.

158. Sivasamy P, Vijayakumar C T and Palaniandavar M (**1991**) Flame Retardant Polymers Based on Hexolic Acid/anhydride and its Derivatives, *J. Macromol. Sci., Rev. Macromol. Chem. Phys.*,**C31**, 165.

159. Sivasamy P, Vijayakumar C T and Palaniandavar M (**1991**) Studies on Hexolic Anhydride Based Polyesters-I, *Angew.Makromol.Chem.*, **817**, 169.

1989

160. Pandiyan T and Palaniandavar M (**1989**) Synthesis, Structure and Electron-Transfer by Benzimidazole Derived `Blue' Copper(II) Models, *J. Inorg. Biochem.*, **36**, 234.

161. Viswanathan R and Palaniandavar M (**1989**) Iron(III) Intradiol Dioxygenase Models. Synthesis and Stereochemical and Reactivity studies, *J. Inorg. Biochem.*, **36**, 325.

162. Indira S and Palaniandavar M (**1989**) Interaction of Some Biomimetic Copper(II) Complexes with ATP and AMP. A Ligand Field Approach, *J. Inorg. Biochem*., **36**, 291.

163. Palaniandavar M (**1989**) Models for Enzyme-Copper-Nucleic Acid Interaction 2. ^{1}H NMR Line Broadening Study of the Interaction of Some Copper Complexes with Cytidine, *Biol.TraceElem.Res.*, **21**, 41.

1988

164. Sanni S B, Behm H J, Beurskens P T, van Albada G A, Reedijk J, Lenstra A T H, Addison A W and Palaniandavar M (**1988**) Copper(II) and zinc(II) co-ordination compounds of tridentate bis(benzimidazole)pyridine ligands. Crystal and molecular structures of bis[2,6-bis(1′-methylbenzimidazol-2′-yl)pyridine]copper(II) diperchlorate monohydrate and (acetonitrile)[2,6-bis(benzimidazol-2′-yl)pyridine](perchlorato)copper(II) perchlorate, *J. Chem. Soc., Dalton Trans.*, (6), 1429.

165. Addison A W, Palaniandavar M, Paap F, Driessen W L and Reedijk J (**1988**) Copper Complexes of some Tetradentate Pyrazolyl Amines, *Inorg. Chim. Acta*, **142**, 95.

1983

166. West D X and Palaniandavar M (**1983**) Electronic and ESR Spectra of Ternary Cu(II) Complexes with O, N Ligands, *Inorg. Chim. Acta,***77**, L97.
167. West D X and Palaniandavar M (**1983**) Electronic and ESR Spectra of some Ternary Copper(II) Complexes Formed by Bidentate (O,O and O,N) Ligand, *Inorg. Chim. Acta*, **76**, L149.
168. Palaniandavar M and West D X (**1983**) Electronic and EPR Spectral Studies of Cu(II) Complexes of Two Different Bidentate Dioxygen Donors, *Inorg. Chim. Acta*, **71**, 61.
169. West D X, Sivasubramanian S, Manisankar P, Palaniandavar M and Arumugam N (**1983**) A Reassessment of Bonding of the Nitrone Function in Copper(II) Complexes of 2-hydroxyl-1-naphthyl nitrone, *Trans. Met. Chem.*, **8**, 317.
170. Natarajan C and Palaniandavar M (**1983**) Stereochemistry of Co(II), Ni(II) and Cu(II) Complexes of 2'-Hydroxychalconeoximes, *Proc. Ind. Acad. Sci.*, **92**, 265.
171. Palaniandavar M and Natarajan C (**1983**) Effect of Extensive Conjugation of Coordinated C=O on the Nature of Bonding and Structure of Co(II), Ni(II) and Cu(II) Complexes of 2'-Hydroxy-4-X-chalcones. (Hammett Relationship), *J. Ind. Chem. Soc.*, **LX**, 1.

1982

172. Palaniandavar M and Natarajan C (**1982**) Effect of Extensive Conjugation of Coordinated C=N on the Nature of Bonding and Structure of Co(II), Ni(II) and Cu(II) Complexes of 2'-Hydroxy-N-R-Chalconeimines, *Indian J. Chem.*, **21A**, 670.

1980

173. Palaniandavar M and Natarajan C (**1980**) Co(II), Ni(II) and Cu(II) Complexes of some *o*-Hydroxycrotonophenone (Effect of Conjugation of Coordinated C=O on Stereo

Chemistry and Bonding), *Aust. J. Chem.*, **33**, 729.

174. Palaniandavar M and Natarajan C (**1980**) Co(II), Ni(II) and Cu(II) Complexes of some 2'-Hydroxychalcones (Effect of Extensive Conjugation of C=O on Stereochemistry and Bonding), *Aust. J. Chem.*, **33**, 737.

1979

175. Natarajan C, Ashok F N and Palaniandavar M (**1979**) (Ethylacetoacetato)(salicylaldehydato)copper(II) - Preparation and Reactions with Amines, *Indian J. Chem.*, **17A**, 95.