CONTENTS

			Page No.
List of Figures			
List of Tables			
List of Abbreviations			
Preface			
Chapter – 1	Introd	luction & Literature Survey	1–63
	1.1	Coordination Polymers	1
	1.2	Historical Background and Discovery of Coordination Polymers	2
	1.3	Bonding in Coordination Polymers	4
	1.4	One–Dimensional Coordination Polymers (1–D CPs)	12
	1.5	Methods for the Synthesis of Coordination Polymers	14
	1.6	Significant Networks of Coordination Polymers	15
	1.7	Properties of Coordination Polymers	21
	1.8	Applications of Coordination Polymers	23
	1.9	Ligands: Important to Tune the Structure of Coordination Polymers	34
	1.10	Nano-Coordination Polymers	37
	1.11	Drug Sensing	48
	1.12	Electrochemical Sensing of Drugs	56
	1.13	Scope of the Work	62
	1.14	Objective of the Thesis	63
Chapter – 2	One-pot Synthesis of Coordination Polymer 2,5-Dimercapto-1,3,4-thiadiazole-Gold and its Application in Voltammetric Sensing of Resorcinol		
	2.1	Introduction	64
	2.2	Experimental	66
	2.3	Results and Discussion	69
Chapter – 3		-porous Network of DMTD–Ag Coordination Polymer for tra Trace Detection of Anticholinergic Drug	83–104
	3.1	Introduction	83
	3.2	Experimental	87
	3.3	Results and Discussion	89
Chapter – 4	The Nanocrystalline Coordination Polymer of AMT-Ag for an Effective Detection of Ciprofloxacin Hydrochloride in Pharmaceutical Formulation and Biological Fluid		

	4.1	Introduction	105		
	4.2	Experimental	108		
	4.3	Results and Discussion	110		
Chapter – 5	Sumn	ummary			
References			134–155		
List of Research Publications					
Reprints of Publications					
Personal Profile					