

Table of Contents

1. General objectives	3
2. Sensors for anions and cations	7
2.1. Introduction	9
2.2. Objectives	31
2.3. Imidazoanthraquinone derivatives for the chromo-fluorogenic sensing of basic anions and trivalent metal cations.....	35
2.4. Synthesis and evaluation of the chromo-fluorogenic recognition ability of imidazoquinoline derivatives toward ions.....	87
2.5. Conclusions	119
3. CO Sensors	123
3.1. Introduction	125
3.2. Objectives	149
3.3. Ruthenium (II) and osmium (II) vinyl complexes as highly sensitive and selective chromogenic and fluorogenic probes for the sensing of carbon monoxide in air	153
3.4. Highly sensitive and selective molecular probes for chromo-fluorogenic sensing of carbon monoxide in air, aqueous solution and living cells	221
3.5. Conclusions	305
4. General conclusions.....	309