

CHAPTER V

CONCLUSIONS

The controlled structure benzoxazine coupling onto silica resin was achieved by using the molecular design hinted from monooxazine benzoxazine dimer. Monooxazine type of benzoxazine dimer was successfully prepared and was a key to produce silica resin coupled benzoxazine dimer. Compound **2** showed ion interaction properties with transition metals. Although only 5% of compound **2** was introduced onto fumed silica to be compound **3**, the ion extraction ability showed similar selectivity as compound **2** ion while the sensitivity was 30% to that of compound **2**.