

TABLE OF CONTENT

PREFACE

1. Introduction

2. Synthesis of polyaniline (PANI)

2.1. Heterophase polymerization

2.1.1. Synthesis of PANI colloidal dispersion

2.1.2. Synthesis of PANI by direct and inverse emulsion polymerization

2.1.3. Synthesis of PANI by direct and inverse miniemulsion polymerization

2.1.4. Synthesis of PANI by direct and inverse microemulsion polymerization

2.2. Sonochemical synthesis of PANI

2.3. Synthesis of PANI by interfacial polymerization

2.4. Synthesis of PANI by metathesis reaction

2.5. Template synthesis of PANI

2.6. Synthesis of PANI by seeding polymerization

2.7. Synthesis of PANI by self-assembly polymerization

2.8. Synthesis of PANI by electropolymerization

2.9. Synthesis of PANI by plasma polymerization

2.10. Synthesis of PANI by photo-induced polymerization

2.11. Synthesis of PANI by solid-state polymerization

2.12. Enzymatic synthesis of PANI

3. Properties of PANI

3.1. Factors influencing the electrical conductivity of PANI

4. Processing of PANI and its composites

5. Applications of PANI and its composites

6. Conclusion

References