ACKNOWLEDGEMENTS

It’s my pleasure to acknowledge the roles of several individuals who were instrumental for the completion of my Ph.D work.

First and foremost, I praise and thanks to the God, the Almighty, for His showers of blessings throughout my research work to complete the research successfully.

It’s a genuine pleasure to express my deep sense of thanks and gratitude to my mentor, Dr. D. Bahulayan, Professor, Department of Chemistry, University of Calicut. His timely advice and scientific approach helped me to a very great extent for the completion of my thesis.

I am also grateful to Dr. P. Raveendran, Head of the Department of Chemistry, University of Calicut, and former heads Dr. K. Muraleedharan, Dr. V.M. Abdul Mujeeb, Dr. P. Muhammed Shafi and Dr. T. Gangadevi for providing necessary facilities.

My appreciation also extends to all my dear friends from my lab and other labs especially, Dr. V. S Shinu, Dr.P.Pramitha, Dr. Biny Balan, Dr. S. Arun, P. Jithin raj, T. Jency Mohan, C. Muhammed Ajmal, Rajeena Pathoor, P. Thasnim, E. P Shyam Shankar, A. Shamsiya, Muhammed Salim K. M., Muhammed Yousaf (NIIST), Dr.Asha K S (IISER), Dr. Abhineesh Babu & Dijo Prasannan (NIT) and Dr.K.Vimala (Periyar University). I am also grateful to the Central Sophisticated Instrumentation Facility (CSIF), department of Chemistry and computational lab for the computational analysis.
I take this opportunity to thank all other teachers and non-teaching staff of the Department of Chemistry, University of Calicut for their valuable help.

Above all, I am grateful to my parents, my husband and other family members for their constant support and love throughout the completion of my thesis. Without their prayers and encouragement, I could not have completed this thesis.

Finally, I also acknowledge the financial assistance received from University of Calicut and UGC in the form of BSR-JRF.

Soumya T.V.