ACKNOWLEDGMENT

Firstly, I owe to GOD for providing me enough strength and confidence to the successful realization of this thesis.

It has been great pleasure and fortune to work with Prof. M. K. Rabinal my research supervisor who introduced me to the field of Nanostructured materials in particular Supercapacitors. I take this opportunity to thank him with deep sense of gratitude for the painstaking tutelage, training, encouragement, support and suggestions throughout the course of this work.

I thank Karnatak University, Dharwad which has given me the new life, also I am thankful for giving me an opportunity to do research and providing me all the facilities.

I thank to the Chairman Prof. U. S. Raikar for his support and allowing me to use the facilities of the department during my research work.

I express my heartfelt thanks to Prof. B.G. Mulimani, Prof. B. Hanumaiah and Prof. A. M. Karaguppi for their indispensable help and enthusiasm during my masters and also for motivating me towards research.

I will convey my sincere thanks to Prof. S. R. Inamdar for his encouragement, advice and support. I would like to express my special thanks to Prof. N. S. Sankeshwar, Prof. J. S. Bhat, Prof. J. R. Tonannavar, Prof. N. M. Badiger, Prof. R. F. Bhajantri, Prof. L. R. Naik, Prof. J. S. Kadadevaramath, Prof. J. V. Yenagi, Prof. S. Y. Amargolka and Dr. A. H. Sidrai for their support and encouragement.

I am very grateful to Prof. B. M. Swamy, Prof. I. M. Khazi, Prof. M. Y. Karidurgannavar and Prof. Revankar for the scientific discussion and encouragement. I bestow my heartfelt thanks to Prof. Laxmi S. Doddamani, for her support and care. I would like to express my thanks to my sister Prof. Mallika. Ghanti. Registrar Kuvempu University, Shivamogga. Mrs. Najamus Saquib M. Rabinal for her support and care throughout the work.
I would like to thank Prof. Joshi, Hanchinamani Classes for his help and encouragement.

Special thanks to my seniors Dr. M. N. Kalasad and Dr. I. M. Ikram for their priceless support, help and care throughout my work.

I am grateful to past and present labmates Dr. R. K. Hiremath, Uma Nerle, R. M. Hodlur, P. K. Gejji, Bindu, Raghu, Nikhil and Rafiq for their invaluable help especially in discussions.

I gratefully acknowledge Prof. M. S. Yatnatti, Prof. M. S. Yaragop, Prof. N. R. Patil, Dr. M. D. Kamatagi, Dr. V. S. Katti, and Dr. Shivakumar M. A. for their inspiration and encouragement throughout this research work.

My special thanks to department friends Sameer Galagali, Dr. Anil Naik, Dr. Anita Shettar, Dr. Anita N, Dr. Jyoti Akki, Arun, Yashashwita, Ismail, Rizwana, Papanna, Manju, Balesh, Adarsh, Puttu, Kotresh, Subbu, Santosh Mirji, Muttu, Sameer K, Lakkanna and Sukanya.

I would like to thank Dr. B. R. Patil, Dr. Dayanand Badiger, Dr. Shrinath and Dr. Raghavendra for their discussion in chemistry. Dr. Sachin Eligar, Dr. Ganapati for their help.

Special thanks to Basavaraj Budanur, IIT Kanpur, for the material characterizations and helping me in all the matters of my life and to all my IISc friends Dr. Manju Lamani, Dr. Prashant Metri and Prashant Kasargod for their help during the visit to IISc and for the motivation in my entire course.

Life in the campus has been very pleasurable with the company of many friends like Pramod, Bhimu, Pujar, Nagappa and Channu.

I was a joyrider with these men Mahesh, Ramchandra Karnam, Upendra, Shanee, Santosh and Farooq.
I am grateful to Mrs. Deepa M. Kalasad and Vandana Sugur for sister like care and support.

I would like to thank all department staff for their support and help throughout the course. I thank USIC for providing all the facilities and USIC staff for being kind. I thank Mr. Girish, Mrs. Shiala, Mr. Itagi, Shri Kulakarni, Imtiyaz Belgam and Mr. Agadi of Accounts Section, Scholarship Section, Audit Section and Department of Physics for their entire help during the course.

Words will not suffice to thank my school teacher Sr. Alicia who motivated towards Science. I personally oblige to Dr. Anand Pandurangi and Dr. Sanjeev Kulakarni for their valuable suggestions in my critical time.

I am thankful to Prof. S. R. Inamdar and his family, Dr. M.N. Kalasad and his family, Dr. I. M. Ikram and his family, Anil da and his family, Mahantesh Yatnatti and his family and Sanjeev Patil and his family for giving me homely environment, happy moments and all the joy in few occasions.

I would like to thank my school friends Narayan, Vinayak and Yogesh for their support, help and valuable discussion.

I feel to remember my golden lotus Nalini Vernekar, showed me the new world.

The fellowships from KUD and RFSMS from UGC are greatly appreciated and acknowledged.

I am grateful to my grandfather Shri. Pakeerappa Hosur for wonderful discussions, explanation and interactions on understanding the basic science.

My Parents, Shri. Pundalikappa and Smt. Renuka deserves special mention for their inseparable support and blessings. My gratitude to my sister Shashikala and my brother Santosh, whose love and persistent confidence in me, has taken the load off my shoulder. I also thank to my entire family, who stood behind me all the time.