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# The Scanning Electron Microscopic(SEM) Studies on electrically conducting polythiophene films prepared by electropolymerization: Some novel observations

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**B**eautiful nanodendrites of worm-like fibers of different lengths composed of globules at the edge of the as-prepared polythiophene films and the formation of beautiful hexagonal crystals of NH<sub>4</sub>F on the dry ammonia undoping of polythiophene films were observed for the first time. Efficiency of electropolymerization of thiophene was observed to be nearly 100%. The electropolymerization of thiophene was observed to be a highly efficient process which produced high quality thin films of polythiophene.

## Biography

Faiz Mohammad is Professor in the Department of Applied Chemistry of Aligarh Muslim University. He obtained his D.Phil. in the field of Electrically Conducting Polymers from the School of Chemistry and Molecular Sciences, University of Sussex (UK) in 1988.

His research interests include conducting polymer synthesis, properties

and device applications, chemical and biosensors, polymer nanocomposites and polyblends besides having interest in environmental issues. He has published sixty five papers in refereed journals of international repute, contributed four book chapters and edited one book. He has supervised the research of nine Ph.D., nine M.Phil. and six M.Sc./M.Tech. students. His teaching subjects include organic reaction mechanism, electronic materials and devices, stereochemistry, polymers and biopolymers, polymer synthesis, conducting polymers, polymer degradation and recycling, spectroscopic and thermal techniques for polymer analysis. Presently, he is acting as a Member, Editorial Board, Advances in Materials, SciencePG and Member, Advisory Committee, International Union of Advanced Materials.

He has been extensively engaged in collaborative research, teaching assignment, delivering lectures and participating in the conferences and thus traveled to the countries like UK, USA, Brazil, Singapore, Malaysia, Kingdom of Saudi Arabia, Oman, Pakistan, Bangladesh and Ethiopia

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