

Research Fellow

ARC Centre of Excellence for Electromaterials Science (ACES)

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Dr Winther-Jensen's research interests are focused on two areas within polymer thin films. Research and development of conducting polymers with high conductivity using chemical oxidative polymerisation methods. The research reaches from the fundamental understanding of the mechanism of conductivity in conjugated systems to implementation of conducting polymers in devices, methods for patterning and printing of conducting polymers and simplification of the production processes.

Surface modification of polymers, glass and metals using plasma-polymerisation for forming functional organic coatings. The use of ultra low power pulsed AC plasma allows formation of polymeric coatings with a very high degree of functionality and also gives control over the polymeric structure on a molecular level. Of special interest is the field of plasma co-polymerisation of monomers with different functionality and the characterisation of these coating as interface to biological systems.