

Research Fellow

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Orawan has finished her PhD in chemistry at the Intelligent Polymer Research Institute (IPRI), University of Wollongong, in 2006 under supervision of Dr. Simon E Moulton and Prof. Gordon G Wallace. Her thesis title was "Synthesis, characterisation and application of inherently conducting polymer nanoparticles". The obtained ICP nanoparticles have been applied in biosensors and electrochromic devices. Some of them are also ink-jet printable hence amenable for mass production. After submission of her thesis, she has got a short-term post-doctoral position at the institute. The work is related to probing photovoltaic phenomena of ICPs-based photoelectrochemical cell.

Her research area in Monash is developing gel-ionic liquid (IL) electrolyte for dye sensitised solar cells (DSSCs). This gel-IL electrolyte is expected to solve instability problem found in conventional liquid electrolyte system. It has advantages over liquid electrolyte in terms of non-volatility, environmental friendly and mechanical stability. The ultimate goal is fabrication of flexible DSSCs.