



# Bioelectrochemical Research Group

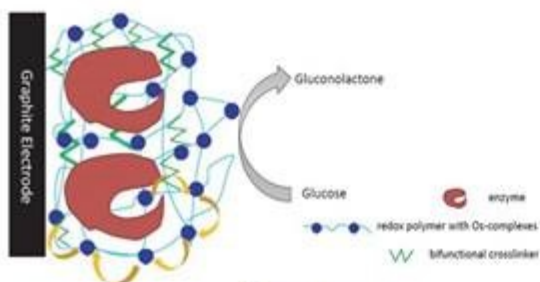
School of Chemistry, Institute of Science,  
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## Dr. Piyanut Pinyou

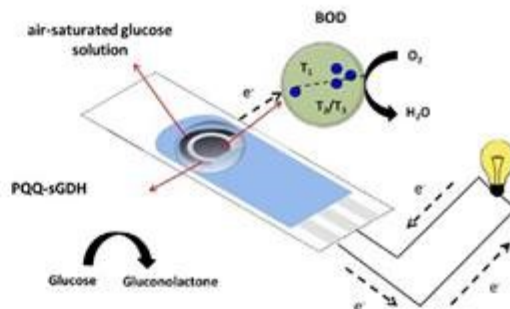


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## Research Interests

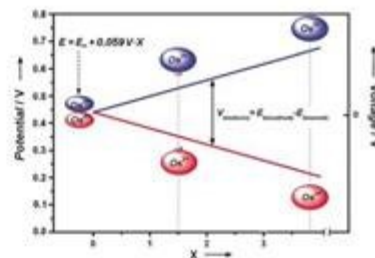
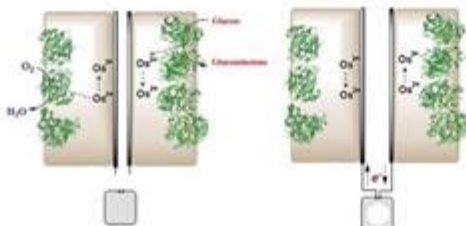


Biosensor



Enzymatic biofuel cell

## Biosupercapacitor



## Selected Publications

1. P. Pinyou, F. Conzuelo, K. Slozberg, J. Vivekananthan, A. Contin, S. Pöllner, N. Plumené, W. Schuhmann, Coupling of an Enzymatic Biofuel Cell to an Electrochemical Cell for Self-Powered Glucose Sensing with Optical Readout. *Bioelectrochemistry*, 106 (2015), 22-27.
2. P. Pinyou, A. Ruff, S. Pöllner, S. Ma, R. Ludwig, W. Schuhmann, Design of an Os-complex modified hydrogel with optimized redox potential for biosensors and biofuel cells. *Chemistry: A European Journal*, 22 (2016), 5319-5326.
3. D. Pankratov, F. Conzuelo, P. Pinyou, S. Alsaoub, W. Schuhmann, S. Shleev, Nernstian-biosupercapacitor. *Angewandte Chemie International Edition* 55 (2016), 15434-15438.

## Opportunities

1. Young Scientist and Technologist Programme (YSTP) : Funding for Senior Project at NANOTEC (NSTDA)
2. Research Collaboration :
  - Dr.Kantapat Chansanpak (National Nanotechnology Center, Thailand] NANOTEC)
  - Dr. Vincent Blay Roger (The Ohio State University, USA)