

# Tri Widayatno

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## Tri Widayatno

Associate Professor

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**Research Areas** : Electrochemical nanomaterial, electrochemical wastewater treatment, Electrochemical surface modification, Electrochemistry

**Educational Qualification:** B.Eng. in Chemical Engineering, Gadjah Mada University, Yogyakarta, Indonesia, 2001.  
M.Sc in Clean Technology, Newcastle University, UK, 2007.  
Ph.D in Chemical Engineering, Newcastle University, UK, 2013.

**Member of Professional Bodies** : American Chemical Society (ACS), Indonesian Chemical Society (HKI, Himpunan Kimia Indonesia).

**Teaching** : Department of Chemical Engineering, Universitas Muhammadiyah Surakarta (UMS)  
1. General Chemistry 2. Physical Chemistry 3. Mass Transfer Operation  
4. Chemical Plant Design 5. Introduction to Electrochemical Engineering

## Selected Publications:

1. Widayatno, T (2016), Modelling and simulation of current distribution of nickel electrodeposition from low electrolyte concentration at a narrow interelectrode gap, ARPN Journal of Engineering and Applied Science (JEAS), VOL. 11, NO. 8, APRIL 2016
2. Widayatno, T (2016), Kinetics of nickel electrodeposition from low electrolyte concentration and at a narrow interelectrode gap, AIP Conference Proceedings 1699, 050002.
3. Widayatno, T. and Roy, S. (2015). Initial study of Nickel Electrolyte for EnFACE Process. International Journal of Science and Engineering, Vol. 8(2), 131-134
4. Widayatno, T. and Roy, S (2014), Development of Palladium Electrolyte for Maskless Electrochemical microfabrication Process, Proceeding, International Conference on Engineering, Technology and Industrial Application (ICETIA) 2014.
5. Widayatno, T. & Roy, S., Nickel Electrodeposition using Enface, J Appl Electrochem (2014) 44: 807.
6. Widayatno, T. & Roy, S. (2011), Electrodeposition of nickel pattern without photolithography of substrates, Green Process Engineering (GPE 11) Conference