

CURRICULUM VITAE

Name: Miss Natda Wetchakun

Date of birth: October 26, 1981

Education background : B.Sc. (Physics), Ubon Rajathani University, 2003.
M.S. (Materials Science), Chiang Mai University, 2005
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Scholarship: Scholarship from The Commission on Higher Education,
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Experience: Short-term researcher for study of photocatalytic activity using spiral reactor and effects of metal ions doped TiO₂ by the modified sol-gel method at Prof. Amal's research group, ARC Centre of Excellence for Functional Nanomaterials, School of Chemical Sciences and Engineering, The University of New South Wales, Sydney, Australia, during October, 2005 and September, 2006.

Publications

1. Wetchakun, N., and Phanichphant, S., Synthesis and characterization of TiO₂ nanoparticles coated on fly ash, International Journal of Nanoscience, 5, 2006, 657-662.

2. Wetchakun, N., and Phanichphant, S., Effect of temperature on the degree of anatase-rutile transformation in titanium dioxide nanoparticles synthesized by the modified sol-gel method, *Current Applied Physics*, 8, 2008, 343-346.
3. Wetchakun, N., Chiang, K., Amal, R., and Phanichphant, S., Synthesis and characterization of transition metal ions doping on the photocatalytic activity of TiO₂ nanoparticles, IEEE Xplore database and indexed by the Engineering Index (EI) or International Journal of Nanotechnology. Accepted.
4. Wetchakun, N., Pirakitikulr, P., Chiang, K., and Phanichphant, S., Visible light-active of nano-sized Fe-doped TiO₂ photocatalysts and their characterization, IEEE Xplore database and indexed by the Engineering Index (EI) or International Journal of Nanotechnology. Accepted.

Conference papers/Presentations

1. Wetchakun, N. and Phanichphant, S., Modified Sol-Gel Synthesis and characterization of nano-sized titanium dioxide: Its photocatalytic performance, Oral Presentation, SmartMat08@IWOFM-2, 22-25 April 2008, Chiang Mai, Thailand. Accepted.

2. Wetchakun, N., Chiang, K., Amal, R., and Phanichphant, S., Synthesis and characterization of transition metal ions doping on the photocatalytic activity of TiO₂ nanoparticles, Oral Presentation, 2nd IEEE International Nanoelectronics Conference 2008, 24-27 March, Shanghai, China. Accepted.
3. Wetchakun, N., Pirakitikulr, P., Chiang, K., and Phanichphant, S., Visible light-active of nano-sized Fe-doped TiO₂ photocatalysts and their characterization, Oral Presentation, 2nd IEEE International Nanoelectronics Conference 2008, 24-27 March, Shanghai, China. Accepted.
4. Wetchakun, N., Phanichphant, S., Chiang, K., and Amal, R., Photocatalytic activity of transition metal ion-doped titanium dioxide, Poster Presentation, The First Thailand National Nanotechnology Conference on Nanomaterials, Pharmaceutical, Devices and Applications, 14-16 August 2007, Chiang Mai, Thailand.
5. Wetchakun, N., and Phanichphant, S., Study of visible light active Fe-doped TiO₂ nanoparticles for photomineralization of oxalic acid, Oral Presentation, International Conference on Materials for Advanced Technologies (ICMAT) 2007, 1-6 July 2007, Suntec Singapore International Convention & Exhibition Centre, Singapore.
6. Wetchakun, N., Phanichphant, S., Chiang, K., and Amal, R., Effects of transition metal ion doping on photocatalytic activity of TiO₂, Poster

presentation, Partec2007 International Congress on Particles Technology, Nürnberg Germany, 27-29 March 2007.

7. Wetchakun, N., and Phanichphant, S., Effect of temperature on the degree of anatase-rutile transformation in titanium dioxide nanoparticles synthesized by the modified sol-gel method, Poster presentation, 3rd International Conference on Advanced Materials & Nanotechnology, New Zealand 11-17 February 2007.
8. Wetchakun, N., and Phanichphant, S., Synthesis and characterization of TiO₂ nanoparticles coated on fly ash, Poster presentation, 3rd International Conference on Materials for Advanced Technologies (ICMAT 2005), Singapore 3-8 July 2005.
9. Wetchakun, N., and Phanichphant, S., XRD, SEM and TEM investigation of titanium dioxide nanoparticles, Poster presentation, 22nd Annual Conference of Microscopy Society of Thailand, Chonburi, 2005.
10. Wetchakun, N., and Phanichphant, S., Rutile and anatase TiO₂ nanoparticles synthesis in the absence of calcination, Poster Presentation, SmartMat-'04, The International Conference on Smart Materials, Smart/ Intelligent Materials and Nanotechnology, 1-3 December 2004, Chiang Mai, Thailand.