

THANITTHA SAMERJAI Ph.D.



Workplace

School of Science
University of Phayao

Address:

19 Moo 2 Tambon Maeka
Amphur Muang Phayao 56000
Thailand

Phone:

(66) 054-466-666 ext.1712

Email:

ts_thanittha@hotmail.com

Work Experience

- August 2013 - present
Lecturer, School of Science, University of Phayao

Education

Doctor of Philosophy: **Nanoscience and Nanotechnology – 2013**
Chiang Mai University, Thailand

Master of Science: **Chemistry – 2009**
Chiang Mai University, Thailand

Bachelor of Science: **Chemistry – 2007**
Chiang Mai University, Thailand

Specializations

- Gas Sensor
- Nanomaterial

Publications

1. **Samerjai T**, Liewhiran C, Phanichphant S. Synthesis of MgO/ZnO Nanocomposites by Flame Spray Pyrolysis. *AIP Conference Proceedings* 2009; 1151(1): 17–20.
2. **Samerjai T**, Liewhiran C, Phanichphant S. Characterization of ZnO/MgO Nanocomposites Synthesized by Flame Spray Pyrolysis. *J. Microscopy Soc.* 2009; 23: 89–90.
3. Janmenee R, **Samerjai T**, Liewhiran C, Phanichphant S. Pd-doped SnO₂ nanoparticle synthesized by precipitation/thermal decomposition methods. *2010 IEEE 5thInternational Conference on Nano/Micro Enginerrred and Molecular Systems* 2010: 38–42.
4. **Samerjai T**, Wisitsoraat A, Liewhiran C, Phanichphant S. Hydrogen sensors based on zinc oxide nanoparticles. *2010 IEEE 5thInternational Conference on Nano/Micro Enginerrred and Molecular Systems* 2010: 34–37.
5. **Samerjai T**, Tamaekong N, Liewhiran C, Wisitsoraat A, Tuantranont A, Phanichphant S. Selectivity towards H₂ Gas by Flame-made Pt-loaded WO₃ Sensing Films. *Sens. Actuators B: Chem.* 2011; 157(1): 290–297.
6. Wetchakun K, **Samerjai T**, Tamaekong N, Liewhiran C, Siriwong C, Kruefu V, Wisitsoraat A, Tuantranont A, Phanichphant S. Semiconducting metal oxides as sensors for environmentally hazardous gases, *Sens. Actuators B: Chem.* 2011; 160(1): 580–591.
7. **Samerjai T**, Tamaekong N, Phanichphant S. Characterization of Pt-doped WO₃ Nanoparticles Synthesized by Flame Spray Pyrolysis. *Defect and Diffusion Forum* 2012; 326: 394–399.
8. **Samerjai T**, Tamaekong N, Liewhiran C, Wisitsoraat A, Phanichphant S. Pt-loaded WO₃ thick films for NO₂ gas sensing. *Proceedings IMCS* 2012: 754–757.
9. Siriwong C, Wetchakun N, Inceesungvorn B, Channei D, **Samerjai T**, Phanichphant S. Doped-Metal Oxides Nanoparticles for Use as Photocalalysis. *Prog. Cryst. Growth Charact. Mater.* 2012; 58(2-3): 145–163.
10. **Samerjai T**, Tamaekong N, Wetchakun K, Kruefu V, Liewhiran C, Siriwong C, Wisitsoraat A, Tuantranont A, Phanichphant S, Flame-spray-made metal loaded semiconducting metal oxides thick films for flammable gas sensing. *Sens. Actuators B: Chem.* 2012; 171: 43–61.
11. **Samerjai T**, Tamaekong N, Liewhiran C, Wisitsoraat A, Phanichphant S. NO₂ gas sensing of flame-made Pt-loaded WO₃ thick films. *J. Solid State Chem.* 2014; 214: 47-52.
12. **Samerjai T**, Tamaekong N, Liewhiran C, Wisitsoraat A, Phanichphant S. CO detection of hydrothermally synthesized Pt-loaded WO₃ films. *J. Nanosci. Nanotec.* 2014; 14(10): 7763-7767.

Publications

13. Tamaekong N, **Samerjai T**, Liewhiran C, Wisitsoraat A, Phanichphant S, The effect of Mn on flame spray pyrolysis-made ZnO nanoparticles for flammable gases detection. *J. Nanosci. Nanotec.* 2014; 14(10): 7860-7864.
14. **Samerjai T**, Liewhiran C, Wisitsoraat A, Tuantranont A, Khanta C, Phanichphant S. Highly selective hydrogen sensing of Pt-loaded WO_3 synthesized by hydrothermal/impregnation methods. *Int. J. Hydrog. Energy* 2014; 39(11) 6120-6128.
15. Samerjai T, Channei D, Khanta C, Inyawilert K, Liewhiran C, Wisitsoraat A, Phokhartkul D, Phanichphant S. Flame-spray-made Zn-In-O alloyed nanoparticles for NO_2 gas sensing. *J. Alloys Compd.* 2016; 680: 711-721.