

สรุปผลงาน
จากโครงการวิจัยที่ได้รับทุน

ผลงานตีพิมพ์

1. V. Kruefu, A. Wisitsoraat, and S. Phanichphant, Enhanced Ethanol Selectivity of Flame-Spray-Made Au/ZnO Thick Films, *J. Nanosci. Nanotechnol*, 2014, 14, 7768-7773. (เอกสารแนบ 1)
2. V. Kruefu, A. Wisitsoraat, A. Tuntranont, S. Phanichphant, C₂H₅OH Gas Sensing Based on Poly(3-hexylthiophene)/Nb-loaded ZnO Nanocomposite Films, *Mol. Cryst. Liq. Cryst.* 2014, *In press*. (Manuscript_เอกสารแนบ 2)
3. V. Kruefu, A. Wisitsoraat, S. Phanichphant, Gas sensing properties of conducting polymer/Au-loaded ZnO nanoparticle composite materials at room temperature, *submitted in Nanoscale Research Letters*, 2014. (Manuscript_เอกสารแนบ 3)
4. V. Kruefu, A. Wisitsoraat, S. Phanichphant, Ammonia gas sensor base on hybridized sensing films, *submitted in Materials Research Innovations*, 2014. (Manuscript_เอกสารแนบ 4)

นำเสนอผลงานวิจัยในที่ประชุมวิชาการ

1. V. Kruefu, A. Wisitsoraat, A. Tuantranont and S. Phanichphant “C₂H₅OH Gas Sensing Based on Poly(3-hexylthiophene)/Nb-loaded ZnO Nanocomposite Films” International Conference on Organic Materials for Electronics and Photonics 2013 (KJF2013), Haeundae Grand Hotel, Busan, Korea, 28–31 August 2013. [Poster] (เอกสารแนบ 5)
2. V. Kruefu, A. Wisitsoraat, A. Tuantranont and S. Phanichphant “Room Temperature Ammonia Gas Sensor Base on Hybridized P3HT: Au/ZnO NPs Films” 26th International Microprocesses and Nanotechnology Conference (MNC 2013), Royton Sapporo, Hokkaido, Japan, 5–8 November 2013. [Poster] (เอกสารแนบ 6)
3. M. Pharin, A. Wisitsoraat, A. Tuantranont, S. Phanichphant, V. Kruefu “Ethanol Sensor Based on Au/ZnO Films as Prepared by Flame Spray Pyrolysis” the 30th MST Annual Conference, 23-25 January 2013, Chanthaburi, Thailand. [Poster] (เอกสารแนบ 7.1)

4. J. Hokeaw, A. Wisitsoraat, A. Tuantranont, S. Phanichphant, **V. Kruefu** “*Sensing Characteristics of P3HT/Nb-loaded ZnO Nanocomposite Films as NO₂ Gas Sensors*” the 30th MST Annual Conference, 23-25 January 2013, Chanthaburi, Thailand. [Poster] (เอกสารแนบ 7.2)
5. C. Khunlao, A. Wisitsoraat, A. Tuantranont, S. Phanichphant, **V. Kruefu** “*Ethanol Vapors Sensor Based on P3HT/Au-loaded ZnO Films*” the 30th MST Annual Conference, 23-25 January 2013, Chanthaburi, Thailand. [Poster] (เอกสารแนบ 7.3)
6. **V. Kruefu**, A. Wisitsoraat, S. Phanichphant, Flame Synthesis of Gold-loaded Zinc Oxide Nanoparticles: Structural Properties and Sensing Films Preparation, the 30th MST Annual Conference, 23-25 January 2013, Chanthaburi, Thailand. [Poster] (เอกสารแนบ 7.4)

รางวัลที่ได้รับจากการนำเสนอผลงานวิจัย

1. Poster presentation award (Material Science), The 30th annual conference of the microscopy society of Thailand, January 23-25, 2013, Thailand
Title: Flame synthesis of gold-loaded zinc oxide nanoparticles: structural properties and sensing films preparation
(เอกสารแนบ 8.1)
2. New researcher award (Science and Technology), Maejo University 80 years conference, December 7-10, 2013 Thailand (เอกสารแนบ 8.2)