**You-Hao Yang**

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**Education**

PhD., Chemical Engineering **Projected August 2012**

***Texas A&M University*** ***Cumulative GPA :3.67/4.00***

BS., Chemical Engineering **2004 - 2007**

***National Taiwan University Cumulative GPA :3.65/4.00***

**Research Experience**

Graduate Research Assistant

Polymer nanocomposites lab, Texas A&M University, TX, USA **Jan. 2009 – present**

Topics:

* Influence of deposition time on Layer-by-Layer growth of clayed-based thin films.
* Super gas barrier of all polymer multilayer thin films.
* Crosslinking of polymer multilayer for enhancing gas and moisture barrier

Projects:

* Protective coatings for oil tools applications.(Funded by Baker Hughes) **Jan. 2009 - Dec. 2010**
* Transparent nanocoatings for gas and moisture barrier. (Funded by Kuraray) **March 2011 - present**

PI: Dr. Jaime C. Grunlan

Undergraduate Research Assistant

Membrane Separation Lab, National Taiwan University, Taipei, Taiwan **2006 - 2007**

Topics:

* Fundamental study of polymer membrane structure.

PI: Dr. Da-Ming Wang

Teaching Assistant

CHEN 313 Chemical Engineering Materials **2010 Spring**

CHEN 304 Chemical Engineering Fluid Operations **2010 Fall**

**Research Technical Skills**

Thin film characterization (ellipsometer, reflectometer, profilometer, UV-vis, QCM), microscopy (SEM, AFM), mechanical (Instron, DMA), thermal (TGA, DSC) and FT-IR, EDX, goniometer.

**Honors**

North America Taiwanese Engineers’ Association – Dallas scholarship **2009**

**Publications**

Journal Publications

* **Yang Y. H.**, Haile M., Park Y. T., Malek F. A., Grunlan J. C. “Super Gas Barrier of All-polymer Multilayer Thin Films”. ***Macromolecules*, 2011, *44*, 1450-1459.**
* **Yang Y. H.**, Malek F. A., Grunlan J. C. “ Influence of Deposition time on Layer-by-Layer Growth of Clay-Based Thin Films”. ***I&EC Research*, 2010, *49(18)*, 8501-8509.**
* **Yang Y. H.,** Bowling L., Haile M., Grunlan J. C. “Influence of Crosslinking of Gas Barrier of Polymer Multilayers”. ***Langmuir,*** submitted**.**
* Li Y. C., Mannen S., Morgan A. B., Chang S., **Yang Y. H.**, Grunlan J. C. “Intumescent All-Polymer Multilayer Nanocoating Capable of Extinguishing Flame on Fabric.” ***Advanced Materials***, **2011, *34*, 3926-3931**.
* Park Y. T., Ham A., **Yang Y. H.**, Grunlan J. C. “Fully Organic ITO Replacement through Acid Doping of Double-Walled Carbon Nanotube Thin Film Assemblies.” ***RSC Advances****,* **2011, *1*, 662-671**.

Conference and Symposium Presentations

* **Yang Y. H.**, Haile M., Park Y. T., Malek F. A., Grunlan J. C. “Super Gas Barrier of All-polymer Layer-by-Layer Assemblies”. **2011 AIChE Annual Meeting** in Minneapolis. **2011 October.**
* **Yang Y. H.**, Malek F. A., Grunlan J. C. “Deposition time effect on nanosilicate layer-by-layer film growth and gas barrier” **2011 AIChE Annual Meeting** in Minneapolis. **2011 October.**
* **Yang Y. H.**, Haile M., Park Y. T., Malek F. A., Grunlan J. C. “Super Gas Barrier of All-polymer Multilayer Thin Films”. **241st ACS National Meeting** in Anaheim. **2011 March**.
* **Yang Y. H.**, Malek F. A., Grunlan J. C. “Deposition time effect on nanosilicate layer-by-layer film growth and gas barrier”. **241st ACS National Meeting** in Anaheim. **2011 March.**
* **Yang Y. H.**, Malek F. A., Grunlan J. C. “Influence of deposition time on film growth and microstructure of clay-based layer-by-layer assemblies”. **239th ACS National Meeting** in San Francisco. **2010 March**.
* **Yang Y.** **H.**, Priolo M., Grunlan J. C. “Tunable gas permeability of polymer-clay nano brick wall thin film assemblies”. **239th ACS National Meeting** in San Francisco. **2010 March**.

**Reference**

* Dr. Jaime C. Grunlan, Associate Professor,

Department of Mechanical Engineering, Texas A&M University

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