

You-Hao Yang

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Education

PhD., Chemical Engineering <i>Texas A&M University</i>	Projected August 2012 <u><i>Cumulative GPA :3.67/4.00</i></u>
BS., Chemical Engineering <i>National Taiwan University</i>	2004 - 2007 <u><i>Cumulative GPA :3.65/4.00</i></u>

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.

Projects:

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

PI: Dr. Jaime C. Grunlan

Undergraduate Research Assistant

Membrane Separation Lab, National Taiwan University, Taipei, Taiwan **2004 - 2006**

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*, manuscript in preparation.
- 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**, in press.

Conference and Symposium Presentations

- **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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Phone: 979-845-3027