

Jui-Ming Yeh

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Ph.D., Chemistry, Drexel University

Professor, Department of Chemistry

Anticorrosive Nanocomposite Coating Materials, Conducting Polymers, Organic-Inorganic Hybrid Materials



◆ Research Interests

- ◆ Jui-Ming Yeh is a professor in the polymer field of Chemistry Department. Courses taught include General Chemistry, Polymer Synthesis, Polymer Physics, Special Topics on Polymer Chemistry, Electrochemistry, Introduction to Nanotechnology. Jui-Ming Yeh's research is in a variety of conducting polymers, polymer-clay nanocomposites and inorganic-inorganic hybrid sol-gel materials. Research topics include advanced polymer-clay anticorrosive coatings, dopable electroactive gas separation polymeric membrane, electrospinning polymer nanofibers, polymer nanocomposite foams.

◆ Selected Publications

- ◆ Chang-Jian Weng, Chi-Hao Chang, Chih-Wei Peng, Shao-Wen Chen, Jui-Ming Yeh*, Yen Wei, "Advanced Anticorrosive Coatings Prepared from the Mimicked Xanthosoma Sagittifolium-Leaf like Electroactive Epoxy with Synergistic Effect of Super-hydrophobicity and Redox Catalytic Capability", Chemistry of Materials, Vol. 23, Iss. 8, 2075 -2083, 2011.
- ◆ Hsiu-Ying Huang, Cheng-Ling Lai, Tsao-Cheng Huang, Tzu-Chun Yeh, Mei-Hui Tsai, Jui-Ming Yeh*, Yi-Chen Chou*,*, "Advanced Anticorrosive Materials Prepared from Amine-Capped Aniline Trimer-Based Electroactive Polyimide-Clay Nanocomposite Materials with Synergistic Effects of Redox Catalytic Capability and Gas Barrier Properties", Polymer, Vol. 52, pp. 2391, 2011.
- ◆ Wei-I Hung, Chih-Bing Hung, Ya-Han Chang, Jiun-Kuang Dai, Yan Li, Hai He, Shao-Wen Chen; Tsao-Cheng Huang, Yen Wei*; Xinru Jia*, Jui-Ming Yeh*, "Synthesis and Electroactive Properties of Poly(amidoamine) Dendrimers with an Aniline Pentamer Shell", Journal of Materials Chemistry, Vol. 21, 4581 – 4587, 2011.

◆ Recent Research Projects

- ◆ Preparation, Characterization and Application Studies of Novel Polymer–Silica Mesocomposite Materials, sponsored by National Science Council (August 2009 ~ June 2012)