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Education

B.Sc. (Materials Technology), RU., Thailand.

M.Sc. (Applied Polymer Science and Textile Technology), CU., Thailand.

Ph.D. (Materials Science), CU., Thailand.

Post-Doctoral (Bioplastics & Composites Research), CU., Thailand.

Current Researches

- Composite Materials and Catalyst Synthesis
- Polymer Degradation and Stability
- Polymer Recovery and Recycling
- Thermochemical Conversion of Bio-Polymer and Synthetic Polymer
- Chemical and Physical Modification of Polymer
- Characterization and Testing of Polymer

Publications

- **Chiravoot Pechyen**, Duangdao Aht-Ong, Duangduen Atong and Viboon Sricharoenchaikul, Physicochemical Properties of Carbons Prepared from Physic Nut Waste by Phosphoric Acid and Potassium Hydroxide Activations, *Materials Science Forum* 561-565 (2007) 1719-1722. (Impact Factor = 0.399)
- Viboon Sricharoenchaikul, **Chiravoot Pechyen**, Duangdao Aht-ong and Duangduen Atong, Preparation and Characterization of Activated Carbon from the Pyrolysis of Physic Nut (*Jatropha curcas* L.) Waste, *Energy & Fuel* 22 (2008) 31-37. (Impact Factor = 1.519)
- **Chiravoot Pechyen**, Duangdao Aht-Ong, Duangduen Atong and Viboon Sricharoenchaikul, Investigation of Pyrolyzes Chars from Physic Nut waste for the Preparation of Activated Carbon, *Journal of Solid Mechanics and Materials Engineering* 1 (2007) 498-507. (Impact Factor = 0.343)
- Dundee Aht-Ong, **Chiravoot Pechyen** and Duangduen Atong, Evaluation of the Influence of Additives on the Mechanical Properties and Photo-Stability of Glass Fiber Reinforced Epoxy Pipes Using Central Composite Design, *Advanced Materials Research* 26-28 (2007) 349-352. (Impact Factor = 0.144)
- **C. Pechyen**, D. Aht-ong, V. Sricharoenchaikul and D. Atong, Synthesis of Olivine (LiFePO_4) and Ni/Olivine (LiFePO_4) Catalysts for Upgrading Syn-Gas Production. (Article in Press *Ceramic Transactions* 2009)
- D. Atong, **C. Pechyen**, D. Aht-ong and V. Sricharoenchaikul, Pyrolysis of Physic Nut (*Jatropha Curcas* L.) Residue Under Isothermal and Dynamic Heating Process, *Energy and Sustainability* 2 (2009) 157-176.
- Duangduen Atong, **Chiravoot Pechyen**, Duangdao Aht-Ong and Viboon Sricharoenchaikul, Synthesis of Olivine and Olivine-Supported Nickel Catalyst for Syn-gas Production, (Article in Press *JSME Journal*) (Impact Factor = 0.475)

Awards

- **National Science and Technology Development Agency Outstanding Student Award 2007**
(From Ministry of Science and Technology, Thailand.)

Conferences (International Conferences)

- **MPSGC 2** (Mathematic and Physical Sciences Graduate Congress), 12-14 December 2006, National University of Singapore, *Singapore*, Preparation and Characterization of Pyrolyzed Char from Physic Nut as Potential Activated Carbon (**Oral Presentation**)
- **ASMP 2006** (Asean Symposium on Materials and Proceeding 2006, 9-10 November 2006, Sofitel Central Plaza, *Thailand*, Investigation of Pyrolyzed Chars from Physic Nut Waste for the Preparation of Activated Carbon (**Oral Presentation**)
- **BIOENERGY OUTLOOK 2007**, 26-27 April 2007, Raffles Town Club, Plymouth Avenue , *Singapore*, Preparation and Characterization of Activated Carbon from Pyrolysis of Physic Nut (*Jatropha Curcas L.*) Waste (**Oral Presentation**)
- **PRICM 6** (The Sixth Pacific Rim International Conference on Advanced Materials and Processing), 5-9 November 2007, ICC Jeju, Jeju Island, *South Korea*, Physicochemical Properties of Carbons Prepared from Physic Nut Waste by Phosphoric Acid and Potassium Hydroxide Activations (**Oral Presentation**)
- **PRICM 6** (The Sixth Pacific Rim International Conference on Advanced Materials and Processing), 5-9 November 2007, ICC Jeju, Jeju Island, *South Korea*, Evaluation of the Influence of Additives on the Mechanical Properties and Photo – Stability of Glass Fiber Reinforced Epoxy Pipes Using Central Composite Design (**Poster Presentation**)

Conferences (International Conferences)

- **18th International Symposium on Analytical and Applied Pyrolysis**, 18 – 23 May 2008, Teguiise, Lanzarote, *Spain*, Influence of Slow and Rapid Pyrolysis on the Product Yields and Characteristics of Physic Nut (*Jatropha curcas* L.) Waste (**Poster Presentation**)
- **The 9th International Symposium on Ceramic Materials and Components for Energy and Environmental Applications**, 10 – 14 November 2008, Shanghai International Convention Center, *China*, Synthesis of Olivine (LiFePO₄) and Ni /Olivine (LiFePO₄) Catalysts for Upgrading Syn-gas Production (**Oral Presentation**)
- **Second Asian Symposium on Material and Processing (ASMP2009)**, 1 – 3 June 2009, Bayview Beach Resort, *Malaysia*, Synthesis of Olivine and Olivine-Supported Nickel Catalyst for Syn-gas Production (**Oral Presentation**)
- **Second International Congress on Green Process Engineering**, 14 – 17 June 2009, Venice Lido-Palazzo Del Casino, *Italy*, Enhanced Microwave Induced Thermochemical Conversion of Waste Glycerol for Production of Syngas (**Oral Presentation**)
- **Second International Congress on Green Process Engineering**, 14 – 17 June 2009, Venice Lido-Palazzo Del Casino, *Italy*, Fuel Gas Production by Gasification of Glycerol Waste Over Perovskite-Type Oxide Catalyst (**Oral Presentation**)
- **Energy and Sustainability 2009**, 22 – 25 June 2009, Royal Hotel Carlton, *Italy*, Pyrolysis of Physic Nut (*Jatropha curcas* L.) Residue Under Isothermal and Dynamic Heating Processes (**Oral Presentation**)

Conferences (National Conferences)

- **5th Thailand Materials Science and Technology Conference (MSAT-5)**, 16-19 September 2008, Miracle Grand Convention Hotel, *Thailand*, Chemical Activation of Physic Nut (*Jatropha curcas* L.) Waste Char Using KOH (**Oral Presentation**)