

List of Publication 2010

School of Energy, Environment and Materials

International Journals

1. Adisak Nathakaranakule, Petcharat Jaiboon, and Somchart Soponronnarit, 2010, "**Far-Infrared Radiation Assisted Drying of Longan Fruit**", *Journal of Food Engineering*, Vol. 100, No. 4, October 2010, pp. 662-668.
2. Ali Hasanbeigi, Christoph Menke, and Apichit Therdyothin, 2010, "**The Use of Conservation Supply Curves in Energy Policy and Economic Analysis: The Case Study of Thai Cement Industry** ", *Energy Policy* Vol. 38, No. 1, January 2010, pp. 392-405.
3. Chainarin Ekkaravarodome, Adisak Nathakaranakule, and Itsda Boonyaroonate, 2010, "**Single-Stage Fluorescent Lamps Electronic Ballast Using Class-De Low Dv/Dt Rectifier for Power- Factor Correction**", *IEEE Transactions on Industrial Electronics*, Vol. 57, No. 10, June 29, 2010, pp. 3405-3414.
4. Chanchai Thongpin, Jassada Juntum, R. Sa-Nguan-Moo, Aksorn Suksa-ard, and Narongrit Sombatsompop, 2010, "**Thermal Stability of Pvc with Γ - Aps -G-Mmt and Zeolite Stabilizers by Tga Technique**", *Journal of Thermoplastic Composite Materials*, Vol. 23, No. 4, July 2010, pp. 435-445.
5. Jatuphorn Wootthikanokkhan, Chanchana Thanachayanont, and Nalumol Seeponkai, 2010, "**Synthesis of Graft Copolymers Based on Polyphenylene Xylene and Fullerene Grafted Polystyrene**", *Journal of Applied Polymer Science*, Vol. 116, No. 1, April, 2010, pp. 433-440.
6. Kwanchai Choicharoen, Sakamon Devahastin, and Somchart Soponronnarit, 2010, "**Performance and Energy Consumption of an Impinging Stream Dryer for High-Moisture Particulate Materials**", *Drying Technology*, Vol. 28, No. 1, May 2010, pp. 20-29.
7. Manuchet Nillawong , Narongrit Sombatsompop, and Chakrit Sirisinha, 2010, "**Viscoelastic Properties of Nitrile Rubber Filled with Lignite Fly Ash**", *Journal of Applied Polymer Science*, Vol. 116 No. 6, February 22, 2010, pp. 3497 - 3502.
8. Marc Secanell, Roongrojana Songprakorp, Ned Djilali, and Afzal Suleman, 2010, "**Optimization of a Proton Exchange Membrane Fuel Cell Membrane Electrode Assembly**", *Structural and Multidisciplinary Optimization*, Vol. 40, No. 1-6, May 6, pp. 563-583.
9. Maturada Jinorose, Somkiat Prachayawarakorn, and Somchart Soponronnarit,

- 2010, "**Development of a Computer Vision System and Novel Evaluation Criteria to Characterize Color and Appearance of Rice**", *Drying Technology*, Vol. 28, No. 9, September 15, 2010, pp. 1118-1124.
10. Nachawit Tikul and Panya Srichandr, 2010, "**Assessing the Environmental Impact of Ceramic Tile Production in Thailand**", *Nippon Seramikkusu Kyokai Gakujutsu Ronbunshi/ Journal of the Ceramic Society of Japan*, Vol. 118, No. 1382, October, 2010, pp. 887-894.
 11. Narongrit Sombatsompop, Worakitti Prapruit, Kantima Chaochanchaikul, Tawich Pulngern, and Vichai Rosarpitak, 2010, "**Effects of Cross Section Design and Testing Conditions on the Flexural Properties Wood/Pvc Composite Beams**", *Journal of Vinyl & Additive Technology*, Vol. 16, No. 1, March 2010, pp. 33-41.
 12. Narongrit Sombatsompop, Teerasak Markpin, Preeyanuch Ratchatahirun, Wutthisit Yochai, Chatree Wongkaew, and Nongyao Premkamolnetr, 2010, "**Research Performance Evaluations of Thailand National Research Universities During 2007-2009**", *Information Development*, Vol. 26, No. 4, November, 2010, pp. 301-313.
 13. Narudol Mongkollapkit, Apisit Kositchaiyong , Vichai Rosarpitak, and Narongrit Sombatsompop, 2010, "**Mechanical and Morphological Properties for Sandwich Composites of Wood/Pvc and Glass Fiber/Pvc Layers**", *Journal of Applied Polymer Science*, Vol. 116, No. 6, February 22, 2010, pp. 3427 - 3436.
 14. Narumon Seeponkai and Jatuphorn Wootthikanokkhan, 2010, "**Proton Exchange Membranes for a Direct Methanol Fuel Cell Based on Sulfonated Styrene-(Ethylene-Butylene)-Styrene/Polyvinylidene Fluoride Blends**", *Journal of Applied Polymer Science*, Vol. 117, No. 1, March 17, 2010 pp. 393-399.
 15. Nat Kasayapanand, 2010, "**Electrohydrodynamic Induced Flow and Heat Transfer in Vertical Channel with Fin Array Attached**", *Heat Transfer Engineering*, Vol. 31, No. 2, February 2, 2010, pp. 127-137.
 16. Nattaporn Sriloy , Chantip Kumnuantip, Chanchai Thongpin, Ekachai Wimolmala, and Narongrit Sombatsompop, 2010, "**Effects of Silica Based Fillers, Surface Treatment and Curing Method on Mechanical Properties of Silica/Unsaturated Polyester Composites**", *Macromolecular Research*, Vol. 18, No. 4, April, 2010, pp. 372-379.
 17. Nipon Tanpaiboonkul, Suwimol Asavapisit, and Wichai Sungwornpatansakul, 2010, "**Effect of Chemical and Thermal Activations on the Properties of Rice Husk Ash-Based Solidified Wastes**", *Journal of Environmental Sciences*, Vol. 22, No. 12, December 9, 2010, pp. 1993-1998.

18. Nittaya Pasukphun, Soydoa Vinitnantharat, and S. Ghee, 2010, "**Investigation of Decolorization of Textile Wastewater in an Anaerobic/ Aerobic Biological Activated Carbon System (ala Bac)**", *Pakistan Journal of Biological Sciences* Vol. 13, No. 7, April, 2010, pp. 316-324.
19. Nopporn Patcharaprakiti, Krissanapong Kirtikara, Veerapol Monyakul, Dhirayut Chenvidhya, Jatturit Thongpron, Anawach Sangswang, and Ballang Muenpinij, 2010, "**Modeling of Single Phase Inverter of Photovoltaic System Using Hammerstein-Wiener Nonlinear System Identification** ", *Current Applied Physics*, Vol. 10, No. 3, May 10, 2010, pp. 532-536.
20. Preeda Prakotmak, Somchart Soponronnarit, and Somkiat Prachayawarakorn, 2010, "**Modelling of Moisture Diffusion in Pores of Banana Foam Mat Using a 2-D Stochastic Pore Network: Determination of Moisture Diffusion Coefficient During Adsorption Process**", *Journal of Food Engineering*, Vol. 96, No. 1, January 2010, pp. 119-126.
21. Ratanakorn Rawangkul, Joseph Khedari, Jongjit hirunlabh, and Belkacem Zeghmami, 2010, "**Characteristics and Performance Analysis of a Natural Desiccant Prepare from Coconut Coir**", *Science ASia*, Vol. 36, No. 3, August 25, 2010 pp. 216-222.
22. Sansanee Sansiribhan, Sakamon Devahastin, and Somchart Soponronnarit, 2010, "**Quantitative Evaluation of Microstructural Changes and Their Relations with Some Physical Characteristics of Food During Drying**", *Journal of Food Science*, Vol. 75, No. 7, July, 2010, pp. E453-E461.
23. Somkiat Boonnasa and Pichai Namprakai, 2010, "**The Chilled Water Storage Analysis for a University Building Cooling System**", *Applied Thermal Engineering* Vol. 30, No. 11-12, August, 2010, pp. 1396-1408.
24. Soydoa Vinitnantharat, Sriwilai Kositchaiyong, and Siriluk Chiarakorn, 2010, "**Removal of Fluoride in Aqueous Solution by Adsorption on Acid Activated Water Treatment Sludge**," *Applied Surface Science*, Vol. 256, No. 17, June 15, 2010, pp. 5458-5462
25. Surapong Chirarattananon, Pipat Chaiwiwatworakul, V.D. Hien, Pattana Rakkwamsuk, and Kuskana Kubaha, 2010, "**Assessment of Energy Savings from the Revised Building Energy Code of Thailand**", *Energy*, Vol. 35, No. 4, April 2010,, pp. 1741-1753.
26. Tawich Pulngern, Somchai Chucheepsakul, Chatchai Padyenchuan, Vichai Rosarpitak , Worakitti Prapruit, Kantima Chaochanchaikul, and Narongrit Sombatsompop, 2010, "**Effects of Cross-Section Design and Loading Direction on the Creep and Fatigue Properties of Wood/Pvc Composite**

- Beams**", *Journal of Vinyl and Additive Technology* Vol. 16, No. 1, March, 2010, pp. 42-49.
27. Tawon Usub, Charoenparn Lertsatitthankorn, Nattapol poomsa-ad, Lamul Wiset, Sirithan Siriamornpun, and Somchart Soponronnarit, 2010, "**Thin Layer Solar Drying Characteristics of Silkworm Pupae**", *Food and Bioproducts processing*, Vol. 88, No. 2-3, July-September 2010, pp. 149-160.
 28. Thadsanee Thongkanluang, Pichet Limsuwan, and Pattana Rakkwamsuk, 2010, "**Preparation and Using of High near-Infrared Reflective Green Pigments on Ceramic Glaze** ", *Journal of the Ceramic Society of Japan*, Vol. 118, No. 1377, May 1, 2010, pp. 349-352.
 29. Thammanoon Sookchaiya, Veerapol Monyakul, and Sirichai Thepa, 2010, "**Assessment of the Thermal Environment Effects on Human Comfort and Health for the Development of Novel Air-Conditioning System in Tropical Regions**", *Energy and Buildings*, Vol. 42, No. 10, October 2010, pp. 1692-1702.
 30. Thanid Madhiyanon, Prasan Sathitruangsak, and Somchart Soponronnarit, 2010, "**Combustion Characteristics of Rice-Husk in a Short-Combustion-Chamber Fluidized-Bed Combustor (Sfbc)**", *Applied Thermal Engineering* Vol. 30, No. 4, March, 2010, pp. 347-353.
 31. Thanit Swasdisevi, Weera Sriariyakula, Warunee Tia, and Somchart Soponronnarit, 2010, "**Effect of Pre-Steamng on Production of Partially-Parboiled Rice Using Hot-Air Fluidization Technique**", *Journal of Food Engineering*, Vol. 96, No. 3, February 2010, pp. 455-462.
 32. Vassanasak Limkhuansuwan and Pawinee Chaiprasert, 2010, "**Decolorization of Molasses Melanoidins and Palm Oil Mill Effluent Phenolic Compounds by Fermentative Lactic Acid Bacteria**", *Journal of Environmental Sciences*, Vol. 22, No. 8, August 2010, pp. 1209-1217.
 33. Wasina Thakhiew, Sakamon Devahastin, and Somchart Soponronnarit, 2010, "**Effects of Drying Methods and Plasticizer Concentration on Some Physical and Mechanical Properties of Edible Chitosan Films**", *Journal of Food Engineering*, Vol. 99, No. 2, July 2010, pp. 216-224.
 34. Watcharin Sithicharoen, Naret Intawong, and Narongrit Sombatsompop, 2010, "**An Experimental Apparatus for Measurement of Elongational Flow Propertiwis Foe Ldpe Melt and the Effect of Testing Conditions**", *Polymer and Polymer Composites*, Vol. 18, No. 7, April 29, 2010, pp. 351-360.
 35. Weawboon Yamsaengsung and Narongrit Sombatsompop, 2010, "**Use of Expanded-Epdm as Protecting Layer for Moderation of Photo-Degradation in Wood/Nr Composite for Roofing Applications**", *Journal of Applied Polymer*

Science, Vol. 117, No. 1, March 17 ,2010, pp. 335-342.

36. Wiriya Phomkong, Somchart Soponronnarit, and Paiboon Thammarutwasik, 2010, "**Chemical Pretreatments Affecting Drying Characteristics of Chilli (Cv. Huarou Yon)**", *Drying Technology-An International journal*, Vol. 28, No. 12, november 24, 2010, pp. 1466-1476.

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1. Apisit Kositchaiyong, Santi Mitprasentporn, E.Wimolmala, and Narongrit Sombatsompop, 2010, "**Utilization of Fly Ash Particles as Cost Reducing Agent for Rotational-Moulded Polyethylene Product through Blending Condition Improvement**", *Journal of Research and Innovation for Thai Industries*, Vol. 1, No. 1, January -April 1, 2010 pp. 42-52.
2. Apisit Kositchaiyong, S. Mitprasertporn, Ekachai Wimolmala, Teerasak Markpin, and Narongrit Sombatsompop, 2010, "**Material Characterizations and Anti-Bacterial Performances of Triclosan Containing High-Density Polyethylene**", *Journal of Research and Innovation for Thai Industries*, Vol. 1, No. 1, January, 2010, pp. 42-52.
3. Jindaporn Jamradloedluk and Somchart Soponronnarit, 2010, "**Influence of Surface Characteristic on Quality Attributes of Dried Taro Slices** ", *Agricultural Science Journal*, Vol. 41, No. 3/1, September-december, pp. 321-324.
4. Napalai Kongvasana, Ekachai Wimolmala, Teerasak Markpin, Narongrit Sombatsompop, and Apisit Kositchaiyong, 2010, "**Mechanical Properties and Morphology of Natural Rubber/Chloroprene Rubber Blends Filled with Fly-Ash under Thermal and Oil Ageing**", *KMUTT RESEARCH AND DEVELOPMENT JOURNAL*, Vol. 33, No. 3, July, 2010, pp. 1-15.
5. Petcharat Jaiboon, Somkiat Prachayawarakorn, Sakamon Devahastin, and Somchart Soponronnarit, 2010, "**Effects of Gelatinization on Textural Properties of Brown Waxy Rice** ", *Agricultural Science Journal*, Vol. 41, No. 3/1, December, 2010, pp. 393-396.
6. S.Neanchat, Somchart Soponronnarit, and Jindaporn Jamradloedluk, 2010, "**Microstructure and Textural Characteristics of Taro Chips Undergoing Different Drying Conditions**", *Agricultural Science Journal*, Vol. 41, No. 3/1 september-december pp. 326-328.
7. Somsak Meenakorn, Preecha Termsuksawad, Sorraya Phiboonkulsumrit, and Orawon Chailapakul, 2010, "**Effects of Carbon Black and Mixing Parameters on Capacity of Expander**", *Science Journal Ubonratchathani University*, Vol.,

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8. Teerapong Samran and Preecha Termsuksawad, 2010, "**An Investigation of Microstructural Change of Low Alloy Steel Aisi 4150 by Seebeck Coefficient**", *Journal of Metals, Materials and Minerals*, Vol. 20, No. 1, January, pp. 21-26.
9. Thitigorn Boonchoovong, Rattanachai Pairintra, Sirinuch Chindaruksa, and Sirichai Thepa, 2010, "**Producer Gas Production from Vegetables Residue for Burn Chemical Waste and Earthenware Production by Waste Heat**", *Naresuan University Science Journal*, Vol. 6, No. 2, March 2010, pp. 182-193

International Conferences

1. A. Bilsaiam, C. Thongsongyod, A. Nartkaranakul, and I. Boonyaroonate, 2010. "**The Application Photovoltaic with High Efficiency Class D Llc Resonant Inverter Induction Forging**". *2010 International Conference on Power System Technology: Technological innovation Making Power Grid Smarter, POWERCON 2010*, 2010,
2. C. Photiphitak, Pattana Rakkwamsuk, P. Muthitamongkul, C. Sae-Kung, and C. Thanachayanont, 2010. "**Effect of Silver Nanoparticles Size Prepared by Photoreduction Method on Optical Absorption Spectra of TiO₂/Ag/N719 Dye Composite Films**". *Proceedings of World Academy of Science, engineering and Technology* December, 2010 pp. 67-70.
3. Chamnan Ratsame, Tanes Tanitteerapan, Pratheep Tuptone, and Sirichai Thepa, 2010. "**Photovoltaic Powered Water Pump System for Long Tailed Boat in Thailand Using Dc-Dc Boost Charger**". *2010 3rd International Conference on Computer and Electrical Engineering* November 16-18, 2010, Chengdu, China, pp. V7-582-V587-617.
4. Chamnan Ratsame, Tanes Tanitteerapan, and Sirichai Thepa, 2010. "**An Efficiency Improvement for Photovoltaic Power System with Maximum Power Point Tracking Using Boost Converter**". *2010 3rd International Conference on Computer and Electrical Engineering* November 16-18, 2010, Chengdu, China, pp. v7-613-v7617.
5. Chanchai Thongpin, Piyaporn Niltui, Piyapong Sornwaneenawakhun, Tossaporn Maneeprom, Saovaros Malithong, and Ekachai Wimolmala, 2010. "**Cure Characteristic and Mechanical Properties of Epoxidized Natural Rubber/Chloroprene (Enr/Cr) Blends**". *Advanced Materials Research*, May, 2010, pp. 631-634.
6. Chareonporn Lertsatitthanakorn, Apichit Therdyothin, and Somchart Soponronnarit, 2010, "**Performance Analyses and Economic Evaluation of a**

Hybrid Thermoelectric Solar Water Heater", *Power and Energy*, Vol. 224, No., March 26, 2010, pp. 621-627.

7. Chayada Pansuk and Soydoa Vinitnantharat,2010. "**Pelletization of Coal Fly Ash for Acid Brown 75, Direct Yellow 162 and Chromium (Iii) Removal from Aqueous Solution**". *The 3 rd Technology and Innovation for Sustainable Development International Conference (TISD2010)*, March 4 - 6, 2010, Nong Khai, Thailand, pp. 886-891.
8. Chayada Pansuk and Soydoa Vinitnantharat,2010. "**Adsorption of Anionic Dyes and Cr (Iii) in Single and Mixed Solution System by Surface-Modified Granule Made from Coal Fly Ash**". *The 6th International Conference on Interfaces Against Pollution*, May 16-19, 2010, Beijing, China
9. Chiwat Chokwatvikul, Surasak Surinphong, Chumpol Busabok, Preecha Termsuksawad, and Siriporn Larпкиattaworn,2010. "**Characterization of (Ti,Al)N Thin Film Coated by Pvd Cathodic Arc Using Tial Target**". *Advanced Materials Research* May, 2010, Trans Tech Publications, Switzerland, pp. 276-279.
10. Doolwit Tikul and Panya Srichandr,2010. "**Status of Ecodesign in Architecture in Thailand**". *3rd International Conference on Life Cycle Management*, August 27-29, 2007, Zurich, Switzerland, p. 5.
11. Kanokkan Srimuang, Nuchthana Poolthong, and Worawit Jirattiticharoean, 2010. "**Effect of Rheo-Diecasting Process Parameters on Microstructure and Mechanical Properties of A356**". *The 3rd Technology and Innovation for Sustainable Development International Conference*, March 4-6, 2010, Khon Kaen University, Thailand, pp. 672-677.
12. Kawin Arponiam, Sasidhorn Buddhawong, and Soydoa Vinitnantharat,2010. "**The Reduction of Carbon Dioxide by Using Vanadium Redox Flow Battery as Energy Storage System**". *International Conference for a Sustainable Greater Mekong Subregion*, August 26-27, 2010, Bangkok, Thailand, pp. P283-P288.
13. Kitipong Tangphant, Kaokanya Sudaprasert, and Suthin Channarong,2010. "**Mathematical Model of Ionic Resistance between Electrodes in and Alkaline Electrolyzer**". *The 3rd Technology and Innovation for Sustainable Development International Conference (TISD2010)*, March 4-6, 2010, Khon Kaen University, Thailand pp. 625-628.
14. Kitipong Tangphant, Noppakun Manowat, Nawiphon Pramotephan, Panupong Youprom, Satianpong Somjit, Suthin Channarong, and Kaokanya Sudaprasert, 2010. "**A Study of Fuel Consumption Rate of Internal Combustion Engine: Case Study of Gasoline with Hydrogen and Oxygen Fuel from Electrolyzer**".

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18. Natita Hamaviriyapornwattana, Ekachai Wimolmala, Teerasak Markpin, and Narongrit Sombatsompop,2010. "**Solar Reflectance, Adhesion and Thermal Properties of TiO₂/Polurethane Coating Onton Wood/Natural Rubber Composit Shett**". *7th Asian-Australasian Conference Composite Materials (ACCM - 2010)* Nov 15-18, 2010 Taipei, Taiwan
19. Nongnuch Klinpikul, Panya Srichandr, Nuchthana Poolthong, and Nandh Thavarungkul, 2010, "**Factors Affecting Low Back Pain During Breastfeeding of Thai Women**", *World Academy of Science, Engineering and Technology*, Vol. 72, No., December, 2010, pp. 289-292.
20. Nopporn Patcharaprakiti, Khanchai Tunlasakun, Krissanapong Kirtikara, Dhirayut Chenvidhya, Veerapol Monyakul, Chaya Jivagate, Ballang Muenpinij, Jatturit Thongpron, and J. Saelao,2010. "**Modeling of Islanding Detection for Inverter-Based Distributed Generator Using Nonlinear System Identification Approach**". *international conference sustainable development and climate change* December 10-12 , 2010 souphanouvong university, Luang Prabang, Laos PDR, pp. 1-9.
21. Nopporn Patcharaprakiti, Krissanapong Kirtikara, Chaya Jivagate, Khanchai Tunlasakun, and Ballang Muenpinij,2010. "**System Identification with Cross Validation Technique for Modeling Inverter of Photovoltaic System**". *2010 international conference on Mechanical and Electrical Technology* September 10-12, 2010, Hotel Royal, Singapore, pp. 594-598.
22. Nopporn Patcharaprakiti, Krissanapong Kirtikara, Dhirayut Chenvidhya,

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23. Nopporn Patcharaprakiti, Krissanapong Kirtikara, Dhirayut Chenvidhya, Veerapol Monyakul, and Ballang Muenpinij, 2010. "**Modeling of Single Phase Inverter of Photovoltaic System Using System Identification**". *Second International Conference on Computer and Network Technology* April 23-24, 2010, First Hotel Bangkok, Bangkok Thailand pp. 462-466.
 24. Nopporn Patcharaprakiti, Veerapol Monyakul, Chaya Jivagate, Dhirayut Chenvidhya, Krissanapong Kirtikara, Ballang Muenpinij, Anawach Sangswang, and Jatturit Thongpron, 2010. "**Nonlinear System Identification of Power Inverter for Grid-Connected Photovoltaic System Based on MIMO Black Box Modeling**". *International Conference for a Sustainable Greater Mekong Subregion*, August 26-27, 2010 Bangkok, Thailand,, pp. 728-733.
 25. P. Suriyachai, Namdh Thavarungkul, and Pangdhorn Sae-oui, 2010. "**Effects of Sodium Bicarbonate Content and Vulcanization Method on Properties of NBR/PVC Thermal Insulator Foam**". *Proceeding of World Academy of Science, Engineering and Technology*, December, 2010, pp. 57-61.
 26. Panya Srichandr and Nongnuch Klinpikul, 2010, "**Status of Eco-Design in Thai Furniture Industry**", *Key Engineering Materials*, Vol. 419-420 (2010), No., January, 2010, pp. 769-772.
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 29. Pokchat Noppun, Wandee Onreabroy, and Siriluk Chiarakorn, 2010. "**Modification of Surface Photovoltage by MCM-41 Film for Application as Volatile Organic Compounds Sensing**". *International Conference For a Sustainable Greater Mekong Subregion*, August 26-27, 2010, Bangkok, Thailand, pp. P611-P614.

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33. Pummarin Klankaw, Chamorn Chawengkijwanich, Nurak Grisdanurak, and Siriluk Chiarakorn,2010. "**Synthesis of Hybrid Photocatalytic Mcm-41/Tio2 Thin Film for Degradation of Gaseous Benzene**". *International Conference For A Sustainable Greater Mekong Subregion*, August 26-27, 2010, Bangkok, Thailand, pp. P118-P121.
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35. Raumchai Sae-Low, Janthana Kunchornrat, and Jatuporn Thamjaroen,2010. "**Feasibility Study of the Suitability for Dg Installation of Mea Distribution System**". *International Conference on Sustainable Development and Climate Change: Challenges and Opportunity in GMS*, December 17-19, 2010,
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37. Sasidhorn Buddhawong, Wayu Praphong, and Thares Srisatit,2010. "**Fate and Transportation of Nutrient in Free Water Surface Constructed Wetland for Treatment of Juices Industry Wastewater**". *The 3rd Technology and Innovation for Sustainable Development International Conference (TISD2010)*, March 4 - 6, 2010, pp. 875-878.
38. Sayan Pudwat, Pattana Rakkwamsuk, and Supattanapong Dumrongrattana, 2010. "**Effect of Annealing Ambient on Self-Cleaning Properties of Tio2 Films Prepared by Reactive Dc Magnetron Sputtering**". *Advanced Materials Research*, May, 2010, pp. 247-250.

39. Sirichai Thepa and Wasan Palasai,2010. "**Design of Multi-Blade Wind Turbines for Compressed Air Energy Storage Systems by Using Cfd**". *GMSARN International Conference 2010*, november 17-19, 2010 Luang Prabang City, Lao p. 4
40. Somsak Meenakorn, Preecha Termsuksawad, Sorraya Phiboonkulsumrit, and Orawon Chailapakul,2010. "**Effects of Carbon Black and Mixing Parameters on Capacity of Expander**". *Pure and Applied Chemistry International Conference (PACCON2010)*, January 21-23, 2010, pp. 679-682.
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