

LIST OF PUBLICATIONS 2015

School of Energy, Environment and Material, KMUTT

Annual Report for Year 2015, (Update 7 June 2016)

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INTERNATIONAL JOURNALS

1. S. Paengkanya, S. Soponronnarit, and A. Nathakaranakule, 2015, "**Application of Microwaves for Drying of Durian Chips**", *Food and Bioproducts Processing*, [JIF2015 : 2.474], Vol. 96, No., Oct, pp. 1-11.
2. B. Hiranvarachat, S. Devahastin, and S. Soponronnarit, 2015, "**Comparative Evaluation of Atmospheric and Vacuum Microwave-Assisted Extraction of Bioactive Compounds from Fresh and Dried Centella Asiatica L. Leaves**", *International Journal of Food Science and Technology*, [JIF2015 : 1.384], Vol. 50, No. 3, Mar, pp. 750-757.
3. P. Thanakijkasem, A. Pattarangkun, S. Mahabunphachai, V. Uthaisangsuk, and S. Chutima, 2015, "**Comparative Study of Finite Element Analysis in Tube Hydroforming of Stainless Steel 304**", *International Journal of Automotive Technology*, [JIF2015 : 0.969], Vol. 16, No. 4, Aug, pp. 611-617.
4. C. Katathikankul, S. Kanking, P. Niltui, E. Wimolmala, N. Sombatsompop, and K. Isarangkura, 2015, "**A Correlation between Reinforcing Effect and Antibacterial Performance of Carbon Black and Silica Filled Natural Rubber Vulcanizates Containing Hpqm-Based Neusilin**", *Polymers & Polymer Composites*, [JIF2015 : 0.271], Vol. 23, No. 8, pp. 563-574.
5. S. Wongsisa, P. Srichandr, and N. Poolthong, 2015, "**Development of Manufacturing Technology for Direct Recycling Cemented Carbide (Wc-Co) Tool Scraps**", *Materials Transactions*, [JIF2015 : 0.679], Vol. 56, No. 1, Jan, pp. 70-77.
6. N. Thungsuk, T. Yuji, N. Mungkung, Y. Okamura, A. Fujimaru, H. Kinoshita, D. Hirotsu, M. Kawano, and N. Kasayapanand, 2015, "**The Development of Polyethylene Naphthalate Films by Low-Pressure High-Frequency Plasma Chemical Vapor Deposition System with Advance Oxidations Process**", *Journal of Advanced Oxidation Technologies*, [JIF2015 : 0.988], Vol. 18, No. 1, Jan, pp. 123-128.

7. M. Nararom, S. Thepa, J. Kongkiattikajorn, and R. Songprakorp, 2015, "**Disinfection of Water Containing Escherichia Coli by Use of a Compound Parabolic Concentrator: Effect of Global Solar Radiation and Reactor Surface Treatment**", *Research on Chemical Intermediates*, [JIF2015 : 1.221], Vol. 41, No. 9, Sep, pp. 6543-6558.
8. C. Kochaphum, Shabbir H. Gheewala, and S. Vinitnantharat, 2015, "**Does Palm Biodiesel Driven Land Use Change Worsen Greenhouse Gas Emissions? An Environmental and Socio-Economic Assessment**", *Energy for Sustainable Development*, [JIF2015 : 1.993], Vol. 29, No. 2015, Dec, 2015, pp. 100–111.
9. K. Kunchariyakun, S. Asavapisit, and K. Sombatsompop, 2015, "**Effect of Fine Al-Containing Waste in Autoclaved-Aerated Concrete Incorporating Rice-Husk Ash**", *Journal of Materials in Civil Engineering*, [JIF2015 : 1.296], Vol. 27, No. 8, Aug, p. 7.
10. C. Photiphitak, P. Rakkwamsuk, P. Muthitamongkol, C. Sae-Kung, and C. Thanachayanont, 2015, "**Effect of Silver Nanoparticle Size on Efficiency Enhancement of Dye-Sensitized Solar Cells**", *International Journal of Photoenergy*, [JIF2015 : 1.563], Vol. Article Number: 258635, No., p. 8.
11. S. Meenakorn, P. Termsuksawad, and S. Phiboonkulsumrit, 2015, "**Effects of Carbon Structure and Mixing Sequence in an Expander on the Capacity of Negative Electrodes in a Traction Battery**", *Journal of Materials Engineering and Performance*, [JIF2015 : 0.998], Vol. 24, No. 1, Jan, pp. 45-52.
12. P. Surin, P. Rakkwamsuk, E. Wimolmala, and N. Sombatsompop, 2015, "**Effects of Coir Fiber and Maleic Anhydride Modification on the Properties of Thermoplastic Starch/Pla Composite Laminates**", *Journal of Natural Fibers*, [JIF2015 : 0.460], Vol. 12, No. 2, Mar, pp. 108-120.
13. J. Wootthikanokkhan, M. Phiriyawirut, and O. Pongchumpon, 2015, "**Effects of Electrospinning Parameters and Nanofiller Content on Morphology and Gel Electrolyte Properties of Composite Nanofibers Based on La₂O₃-Filled PvdF-Hfp**", *International Journal of Polymeric Materials and Polymeric Biomaterials*, [JIF2015 : 3.568], Vol. 64, No. 8, pp. 416-426.
14. T. Chungcharoen, S. Prachayawarakorn, P. Tungtrakul, and S. Soponronnarit, 2015, "**Effects of Germination Time and Drying Temperature on Drying Characteristics and Quality of Germinated Paddy**", *Food and Bioproducts Processing*, [JIF2015 : 2.474], Vol. 94, No., Apr, pp. 707-716.

15. A. Sributr, W. Yamsaengsung, E. Wimolmala, A. Kositchaiyong, K. Isarangkura, and N. Sombatsompop, 2015, "**Effects of Solution and Solid Forms of 2-Hydroxypropyl-3-Piperazinyl-Quinoline Carboxylic Acid Methacrylate on Antibacterial, Physical and Mechanical Properties of Polypropylene Sheeting**", *Journal of Plastic Film & Sheeting*, [JIF2015 : 1.500], Vol. 31, No. 3, Jul, pp. 248-268.
16. A. Wiengmoon, P. Sukchot, N. Tareelap, J. T. H. Pearce, and T. Chairuang Sri, 2015, "**Effects of T6 Heat Treatment with Double Solution Treatment on Microstructure, Hardness and Corrosion Resistance of Cast Al-Si-Cu Alloy**", *Archives of Metallurgy and Materials*, [JIF2015 : 1.090], Vol. 60, No. 2, pp. 881-886.
17. K. Yuwawech, J. Wootthikanokkhan, and S. Tanpichai, 2015, "**Effects of Two Different Cellulose Nanofiber Types on Properties of Poly(Vinyl Alcohol) Composite Films**", *Journal of Nanomaterials*, [JIF2015 : 1.644], Vol., No., p. 10.
18. S. Phankosol, K. Sudaprasert, S. Lilitchan, K. Aryusuk, and K. Krisnangkura, 2015, "**An Empirical Equation for Estimation of Kinematic Viscosity of Fatty Acid Methyl Esters and Biodiesel**", *Journal of the American Oil Chemists Society*, [JIF2015 : 1.541], Vol. 92, No. 7, Jul, pp. 1051-1061.
19. C. Khantha, T. Chonsut, A. Kaewprajak, P. Kumnorkaew, and J. Wootthikanokkhan, 2015, "**Enhanced Performance of Bulk Heterojunction Solar Cells Using Double Layers Deposition of Polymer:Fullerene Derivatives**", *Synthetic Metals*, [JIF2015 : 2.252], Vol. 207, No., Sep, pp. 72-78.
20. R. Khunphonoi, P. Khamdagsag, S. Chiarakorn, N. Grisdanurak, A. Paerungruang, and S. Predapitakkun, 2015, "**Enhancement of Elemental Mercury Adsorption by Silver Supported Material**", *Journal of Environmental Sciences-China*, [JIF2015 : 2.002], Vol. 32, No., Jun, pp. 207-216.
21. R. Thuwapanichayanan, U. Yoosabai, D. Jaisut, S. Soponronnarit, and S. Prachayawarakorn, 2015, "**Enhancement of Gamma-Aminobutyric Acid in Germinated Paddy by Soaking in Combination with Anaerobic and Fluidized Bed Heat Treatment**", *Food and Bioproducts Processing*, [JIF2015 : 2.474], Vol. 95, No., Jul, pp. 55-62.
22. T. Areerob, S. Chiarakorn, and N. Grisdanurak, 2015, "**Enhancement of Gaseous Btex Adsorption on Rh-Mcm-41 by Chlorosilanes**", *Sains Malaysiana*, [JIF2015 : 0.446], Vol. 44, No. 3, Mar, pp. 429-439.

23. P. Pongmalai, S. Devahastin, N. Chiewchan, and S. Soponronnarit, 2015, "**Enhancement of Microwave-Assisted Extraction of Bioactive Compounds from Cabbage Outer Leaves Via the Application of Ultrasonic Pretreatment**", *Separation and Purification Technology*, [JIF2015 : 3.091], Vol. 144, No., Apr, pp. 37-45.
24. K. Yuwawech, J. Wootthikanokkhan, and S. Tanpichai, 2015, "**Enhancement of Thermal, Mechanical and Barrier Properties of Eva Solar Cell Encapsulating Films by Reinforcing with Esterified Cellulose Nanofibres**", *Polymer Testing*, [JIF2015 : 2.240], Vol. 48, No., Dec, pp. 12-22.
25. K. Wongsim, J. Jamradloedluk, C. Lertsatitthanakorn, S. Siriamornpun, M. Rungsiyopas, and S. Soponronnarit, 2015, "**Experimental Performance of a Thermoelectric Heat-Pump Drying System for Drying Herbs**", *Journal of Electronic Materials*, [JIF2015 : 1.798], Vol. 44, No. 6, Jun, pp. 2142-2145.
26. T. Sopapornamorn, K. Sudaprasert, and J. Hirunlabh, 2015, "**Impact Assessment of Energy-Saving Houses on Environment in Thailand**", *Journal of Building Physics [JIF 2015: 1.318]*, Vol., No., October 28, 2015,
27. W. Thakhiew, M. Champahom, S. Devahastin, and S. Soponronnarit, 2015, "**Improvement of Mechanical Properties of Chitosan-Based Films Via Physical Treatment of Film-Forming Solution**", *Journal of Food Engineering*, [JIF2015 : 2.771], Vol. 158, No., Aug, pp. 66-72.
28. C. Raikham, S. Prachayawarakorn, A. Nathakaranakule, and S. Soponronnarit, 2015, "**Influences of Pretreatments and Drying Process Including Fluidized Bed Puffing on Quality Attributes and Microstructural Changes of Banana Slices**", *Drying Technology*, [JIF2015 : 1.518], Vol. 33, No. 8, pp. 915-925.
29. S. I. N. Ayutthaya, S. Tanpichai, and J. Wootthikanokkhan, 2015, "**Keratin Extracted from Chicken Feather Waste: Extraction, Preparation, and Structural Characterization of the Keratin and Keratin/Biopolymer Films and Electrospuns**", *Journal of Polymers and the Environment*, [JIF2015 : 1.671], Vol. 23, No. 4, Dec, pp. 506-516.
30. N. Rattanathamwat, J. Wootthikanokkhan, N. Nimitsiriwat, C. Thanachayanont, and U. Asawapirom, 2015, "**Kinetic Studies of Atom Transfer Radical Polymerisations of Styrene and Chloromethylstyrene with Poly(3-Hexyl Thiophene) Macroinitiator**", *Advances in Materials Science and Engineering*, [JIF2015 : 0.744], Vol., No., p. 13.

31. J. Jareanjit, P. Siangsukone, K. Wongwailikhit, and J. Tiansuwan, 2015, "**Management of Ethanol Waste from the Solar Distillation Process: Experimental and Theoretical Studies**", *Energy Conversion and Management*, [JIF2015 : 4.380], Vol. 89, No., Jan, pp. 330-338.
32. S. Rattanaphan and P. Srichandr, 2015, "**Mechanical Model of Traditional Thai Massage for Integrated Healthcare**", *Journal of Healthcare Engineering*, [JIF2015 : 0.754], Vol. 6, No. 2, Jun, pp. 193-212.
33. J. Tharajak, T. Palathai, and N. Sombatsompop, 2015, "**Morphological and Physical Properties and Friction/Wear Behavior of H-Bn Filled Peek Composite Coatings**", *Surface & Coatings Technology*, [JIF2015 : 1.998], Vol. 273, No., Jul, pp. 20-29.
34. N. Silsirivanich, D. Chenvidhya, K. Kirtikara, K. Sriprapha, J. Sritharathikhun, R. Songprakorp, and C. Jivacate, 2015, "**Nonstationary Effects at Photovoltaic Module Characterization Using Pulsed Solar Simulator**", *Journal of Applied Spectroscopy*, [JIF2015 : 0.476], Vol. 82, No. 2, May, pp. 286-292.
35. J. Sitranon, C. Lertsatitthanakorn, P. Namprakai, N. Prathinthong, T. Suparos, and N. Roonprasang, 2015, "**Parametric Consideration of a Thermal Water Pump and Application for Agriculture**", *Journal of Solar Energy Engineering-Transactions of the Asme*, [JIF2015 : 1.614], Vol. 137, No. 3, Jun, p. 12.
36. J. Sitranon, C. Lertsatitthanakorn, P. Namprakai, N. Prathinthong, T. Suparos, and N. Roonprasang, 2015, "**Performance Enhancement of Solar Water Heater with a Thermal Water Pump**", *Journal of Energy Engineering*, [JIF2015 : 1.343], Vol. 141, No. 4, Dec, p. 10.
37. S. Niyomsoan, P. Gargarella, N. Chomsaeng, P. Termsuksawad, U. Kuhn, and J. Eckert, 2015, "**Phase Separation in Rapid Solidified Ag-Rich Ag-Cu-Zr Alloys**", *Materials Research-Ibero-American Journal of Materials*, [JIF2015 : 0.793], Vol. 18, No., Nov, pp. 120-126.
38. M. Wongaree, S. Chiarakorn, and S. Chuangchote, 2015, "**Photocatalytic Improvement under Visible Light in Tio₂ Nanoparticles by Carbon Nanotube Incorporation**", *Journal of Nanomaterials*, [JIF2015 : 1.644], Vol., No., p. 10.
39. K. Worapradya and P. Thanakijkasem, 2015, "**Proactive Scheduling for Steelmaking-Continuous Casting Plant with Uncertain Machine Breakdown Using Distribution-Based Robustness and Decomposed Artificial Neural Network**", *Asia-Pacific Journal of Operational Research*, [JIF2015 : 0.346], Vol. 32, No. 2, Apr, p. 22.

40. K. Kunchariyakun, S. Asavapisit, and K. Sombatsompop, 2015, "**Properties of Autoclaved Aerated Concrete Incorporating Rice Husk Ash as Partial Replacement for Fine Aggregate**", *Cement & Concrete Composites*, [JIF2015 : 3.330], Vol. 55, No., Jan, pp. 11-16.
41. T. Chungcharoen, S. Prachayawarakorn, P. Tungtrakul, and S. Soponronnarit, 2015, "**Quality Attributes of Germinated High-Amylose and Waxy Rice in Superheated Steam and Hot Air Drying**", *Drying Technology*, [JIF2015 : 1.518], Vol. 33, No. 7, pp. 876-885.
42. T. Apinya, N. Sombatsompop, and B. Prapagdee, 2015, "**Selection of a Pseudonocardia Sp Rm423 That Accelerates the Biodegradation of Poly(Lactic) Acid in Submerged Cultures and in Soil Microcosms**", *International Biodeterioration & Biodegradation*, [JIF2015 : 2.131], Vol. 99, No., Apr, pp. 23-30.
43. J. Wootthikanokkhan, P. Khunsriya, N. Seeponkai, U. Asawapirom, and A. Keawprajak, 2015, "**Thermal Behavior and Photovoltaic Performance of Fullerene Grafted Dehydrochlorinated Poly(Vinyl Chloride) in Bulk Heterojunction Solar Cells**", *International Journal of Polymeric Materials and Polymeric Biomaterials*, [JIF2015 : 3.568], Vol. 64, No. 8, pp. 392-399.

National Journals

1. Santita Rattanaphan, Thanit Swasdisevi, Pichai Soison, and Pratarn Wongsarivej, 2015, "**Effect of Vortex Finder Length and Regression Model of Water Flow Ratio as Correlated with Cylindrical and Conical Lengths of a Hydrocyclone**", *KMUTT Research and Development Journal*, [JIF2014 : 0.171], Vol. 38, No. 1, Jan-Mar, 2015, pp. 87-100.
2. Natakron Sirimongkolgal, Suriya Phankosol, Kaokanya Sudaprasert, Kornkanok Aryusuk, and Kanit Krishangkura, 2015, "**Estimation of Vapor Pressure of Biodiesel at Various Temperatures**", *วารสารก้าวหน้าเทคโนโลยีวิทยาศาสตร์*, [JIF2014 : 0.117], Vol. 15, No. 1, 2015, p. 10 Pages.
3. Jaruwat Jareanjit, Jirawan Tiansuwan, Kanda Wongwailikit, and Piya Siangsukone, 2015, "**Increase of Ethanol Concentration from Solar Distillation by an Adsorbent**", *Engineering Journal Chiang Mai University*, [JIF2014 : 0.130], Vol. 22, No. 2, May-Aug, 2015,
4. Wacharaphun Sidthiphong, Thanit Swasdisevi, Sumol Sae-heng, and Kampanart Theinnoi, 2015, "**The Investigation of Cng Dual-Biodiesel Fuel Approach to Address the Performance- Emission Assisted Mutipurpose Diesel Engine**", *The Journal of Industrial Technology*, [JIF2014 : 0.247], Vol. 11, No. 2, May-Aug, 2015, pp. 1-10.
5. Pilawan Sanguanchaipaiwong, Jirawan Tiansuwan, and Piya Siangsukone, 2015, "**Solar Pulsating-Steam Water Pumping with a Flat-Plate Solar Collector as a Steam Generator**", *Engineering Journal Chiang Mai University*, [JIF2014 : 0.130], Vol. 22, No. 1, 2015, pp. 27-35.

International Conferences

1. Nuttee Thungsuk, Toshifumi Yuji, Nat Kasayapan, Chirapas Mahawan, Somchai Arunrungrusmi, and Narong Mungkung, 2015. "**An Analysis of Low-Pressure High-Frequency Plasma Chemical Vapor Deposition System for Flexible Solar Cell Characteristics**". *2015 International Conference on Intelligent Materials and Manufacturing Engineering*, Jan 16-17, 2015, Phuket Island, Thailand, pp., 121-125.
2. Thanit Swasdisevi and Somchart Soponronnarit, 2015. "**Application of Hight-Voltage Electric Field for Drying Process**". *The 16th TSAE National Conference and the 8th TSAE International Conference : TSAE 2015*, Mar 17-19, 2015, BITEC, Bangkok, Thailand, p. 17.
3. Kannaphat Chuenwong, siriluk Chiarakorn, and Boonrod Sajjakulnukit, 2015. "**Assessment of Ghg Emissions from Tableware Ceramic Production in Thailand**". *The Asian Conference on Sustainability, Energy and the Environment 2015*, Jun 17-14, 2015, ACSEE2015 Art Center of Kobe, Kobe, Japan, pp., 267-274.
4. Manthana Wongaree, Surawut Chuangchote, and Siriluk Chiarakorn, 2015. "**Carbon Nanotube/Tio2 Nanocomposites Embedded in Poly(Vinyl Alcohol) Nanofibers by Electrospinning for Photocatalytic Degradation of Gaseoud Benzene**". *12th eco-energy and materials science and engineering symposium*, Jun 11-14, 2015, Krabi, Thailand.
5. Wasan Darawaun, Roongrojana Songprakorp, Veerapol Monyakulb, and Sirichai Thepa, 2015. "**Desing and Preliminary Testing of Low-Grade Heat Source Organic Rankine Cycle with Small Hot Vapour Reciprocating Engine**". *2015 International Conference on Alternative Energy in Developing Countries and Emerging Economies (2015 AEDCEE)*, May 28-29, 2015, Sheraton Grand Sukhumvit Hotel, Bangkok, Thailand, p. 319.
6. Patrpimol Suwankan, Nuttaphong Sornsuwit, and Nuchthana Poolthong, 2015. "**Disgn of Runner and Gating Systems for the Investment Casting of 431 Stainless Steel Netting Hook through Numerical Simulation**". *Key Engineering Materials*, Apr 16, 2015, Trans Tech Publications, Switzerland, pp., 647-651.
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8. Pornrat Sanitnon, Siriluk Chiarakorn, and Chamorn Chawengkijwanich,2015. "**Effect of Silver and Zirconium Dopants on Tio₂ Photocatalytic Reactivity under Visible Light**". *Pure and Applied Chemistry International Conference 2015 (PACCON2015)*, Jan 21-23, 2015, Bangkok, Thailand., pp., 761-764.
9. Pornphachara Takachart, Suwimol Asavapisit, and Rungroj Piyapanuwat,2015. "**Effect of Water Treatment Residue on Properties of Compacted Clay Liner**". *The International Conference on Science and Technology 2015*, Nov 4-6, 2015, Rajamangala University of Technology Thanyaburi, Pathum Thani, Thailand, pp., 48-52.
10. Pakpoom Supachart, Prarop Kruakaew, Thanit Swasdisevi, and Pratarn Wongsarivej,2015. "**Effects of Vortex Finder, Inlet, and Body Diameter on Separation Efficiency of Hydrocyclone for Crude Palm Oil Industry**". *Key Engineering Materials*, Apr 6, 2015, Trans Tech Publications, Switzerland, pp., 652-658.
11. Thunchanok Thongsamer, Soydoa Vinithantharat, and Sivawan Poolphundh,2015. "**Effects of Water Depth,Season and Land Use on the Microbial Numbers Along the Chao Phraya River**". *The 5th National and International Graduate Study Conference 2015*, July 16-17, 2015 Princess Maha Chakri Sirindhorn Anthropology Centre, pp., 801-809.
12. Thawat Nusonthara, Choochat Nitipanyawong, and Preecha Termsuksawad,2015. "**Electrodeposition of Zn-Mn Alloys on Low Carbon Steel for Anodic Protection**". *Pure and Applied Chemistry International Conference 2015 (PACCON2015)*, Jan 21-23, 2015, pp., 1-4.
13. Panatda Riyakad and Siriluk Chiarakorn,2015. "**Energy Consumption and Greenhouse Gas Emission from Ceramic Tableware Production: A Case Study in Lampang Thailand**". *2015 International Conference on Alternative Energy in Developing Countries and Emerging Economies (AEDCEE)* May 28-29, 2015, Sheraton Grande Sukhumvit Hotel, Bangkok, Thailand
14. Benjawan Mahittirook, Nat Kasayapand, and Janthana Kunchornrat,2015. "**Estimation of Greenhouse Gases Emission from Household Energy**". *International Conference on Natural Science and Environment (ICNSE)*, Oct 25, 2015, Hong Kong, p. 1 Page.
15. Olarnler Nilprapai, Adisak Nathakaranakule, and Sirichai Thepa,2015. "**The Feasibility Study for the Installation of Solar Hot Water Systems in the Resort**". *International Conference on Applied Electrical and Mechanical Engineering 2015 and 2nd Asia Conference on Electrical Installation and Applied Technology*, Aug 27-28, 2015, Tongtara Riverview Hotel, Bangkok, Thailand, pp., 317-320.

16. Thanarat Pratumwan, Warunee Tia, Somchart Soponronnarit, and Adisak Nathakaranakule,2015. **"Gis-Based Assessment of Napier Grass Potential for Electricity Generation in Thailand : A Case Study of Unsuitable Area for Planting Economic Crops "**. *The 16th TSAE National Conference and the 8th TSAE International Conference : TSAE 2015*, Mar 17-19, 2015, Bitec Bangna, Bangkok, Thailand, pp., 103-108.
17. Tanomlap Ratchawat, Siriluk Chiarakorn, and Amnat Chidthaisong,2015. **"Greenhouse Gas Emissions of Robusta Coffee Plantation in Thailand "**. *The Asian Conference on Sustainability, Energy and the Environment 2015*, Jun 11-14, 2015, ACSEE2015 Art Center of Kobe, Kobe, Japan, pp., 411-418.
18. Chamnan Limsakul, Roongrojana Songprakorp, Anawach Sangswang, and Panom Parinya,2015. **"Impact of Photovoltaic Grid-Connected Power Fluctuation on System Frequency Deviation in Contiguous Power Systems"**. *41st Annual Conference of the IEEE Industrial Electronics Society*, Nov 9-12, 2015, Pacifico Yokohama, Yokohama, Japan, p. 003236.
19. Bundit Nuchniyom, Sirichai Thepa, Roongrojana Songprakorp, and Wreerat Laithong,2015. **"The Mathematical Model of the Soil Temperatures for Fungus Control by Soil Solarization"**. *International Conference on Mechanical, Civil and Material Engineering(ICMCME)*, May 22-23, 2015, The Stones Hotel, Legian Bali, Indonesia
20. Witchuda Pasom, Apichit Therdyothin, Adisak Nathakaranakule, Cherdchai Prapanavarat, and Bundit Limmeechokchai, 2015, **"The Potential of Demand Response Measures of Commercial Buildings in Thailand"**, *Energy Procedia*, Vol. 79, No., November, 2015, pp. 1015–1020, Presented at : 2015 International Conference on Alternative Energy in Developing Countries and Emerging Economies (2015 AEDCEE), Sheraton Grande Sukhumvit Hotel, Bangkok, Thailand.
21. Patiwat Khomwachirakul, Sakamon Devahastin, Thanit Swasdisevi, and Somchart Soponronnarit,2015. **"Prediction of Particle Residence Time in an Impinging Stream Dryer Via Cfd-Dem Model"**. *The 16th TSAE National Conference and the 8th TSAE International Conference : TSAE 2015*, Mar 17-19, 2015, BITEC, Bangkok, Thailand, p. 78.
22. Nuttapon Jaritkaun, Jatuphorn Woothikanokkhan, Pailin Ngaotranwiwat, and Siriluk Chiarakorn,2015. **"Preparation and Characterization of Tio₂/Wo₃/Polythiophene Composite"**. *International Polymer Conference of Thailand(PCT-5)*, Jun 18-19, 2015, Pathumwan Princess Hotel, Bangkok, Thailand

23. Onruthai Srirodpai, Jatuphorn Woothikanokkhan, and Saiwan Nawalertpanya,2015. "**The Preparation of Vanadium Oxides Films Via a Polymer Assisted Deposition**". *International Polymer Conference of Thailand(PCT-5)*, Jun 18-19, 2015, Pathumwan Princess Hotel, Bangkok, Thailand
24. Chayutpong Tongprachainam, Suthatip Sinyoung, Suwimol Asavapisit, and Kittipong Kunchariyakun,2015. "**Preparation of B-C2s Phase Using Nano-Silica Extracted from Rice Husk Ash**". *Proceedings of the 10th International Conference on the Physical Properties and Application of Advanced Materials*, Nov 17-21, 2015, pp., 264-266.
25. Pongporn Moonchaleanporn, Nuchthana Poolthong, and Ruangdaj Tongsri,2015. "**Sintered Titanium-Hydroxyapatite Composites as Artificial Bones**". *Key Engineering Materials*, Apr 1, 2015, Trans Tech Publications, Switzerland, pp., 35-39.
26. Poj Chutong, Nuchthana Poolthong, and Ruangdaj Tongsri,2015. "**Synthesis and Characterization of Artificial Bone Material Using Calcium from a Natural Source**". *Key Engineering Materials*, Apr 21, 2015, Trans Tech Publications, Switzerland, pp., 40-44.
27. Wasan Darawaun, Roongrojana Songprakorp, Veerapol Monyakulb, and Sirichai Thepa,2015. "**Testing of Low-Grede Heat Source Organic Rankine Cycle with Small Hot Vapor Reciprocating Engine**". *2015 Internation Conference on Alternative Energy in Developing Countries and Emerging Economies*, May 28-29, 2015, Sheraton Grande Sukhumvit Hotel, Bangkok, Thailand, p. 171.
28. Peerapong Nuchuay, Tanapoj Chaikereee, Toshifumi Yuji, Nuttee Thungsuk, Mati Horprathum, Nat Kasayapand, Narong Mungkung, and Arfan Haseemae,2015. "**Transmittance Characteristics by Using High-Frequency Plasma Chemical Vapor**". *ICAEME and 2nd ACEIAT 2015*, Aug 27-28, 2015, Tongtara Riverview, Bangkok, Thailand, pp., 309-312.

National Conferences

1. Thatarat Sywannaphum, Pusit Thanakijkasem, and Nat Kasayapanand,2015. "**Analysis of Air Ventilation in Factory Via Coupled Models**". *34th The National Graduate Research Conference*, Mar 27, 2015, Khon Kaen University, Khon Kaen, Thailand, pp., 349-354.
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