

SPOTLIGHT: RESEARCH GRANTS AND PUBLICATIONS

RESEARCH GRANTS

The Effect of Ultrasonic Irradiation & Catalyst Preparation on the Hydrogenation of Palm Oil Catalyzed by Nano Catalysts and on the Formation of *trans*-Fats (FRGS) P.Mohd. Ridwan Nordin

Effect of Ultrasonic Treatment on Methyl Ester Catalytic Hydrogenation (UMP) P.Mohd. Ridwan Nordin

Photodegradation of Diethanolamine from Sludge Petrochemical Industry Using Titanium Dioxide Photocatalyst (UMP) P.Mohd. Ridwan Nordin

Optimisation of Fermentation Process in Small Cottage Industry by Data Mining Techniques (UMP) Sri Zanariah bt Safai, co-investigator

Applying Data Mining Technique to classify Breast Cancer by Smooth Support Vector Machine (UMP) Sri Zanariah bt Safai, co-investigator

Essential Oil Production from Patchouli (*Pogostemon Cablin*) and Waste Recovery (UMP) Norhayati Rosli, co-investigator

Progress Scorecard Application in Construction Industries (UMP) Mohd Rashid Ab Hamid, co-investigator

Development of Pet Shop Mgt System Veterinary Clinic (UMP) Norazalia Mohd Jamil, co-investigator

Development of Building Submission Check List Information for Operational Submission Centre (OSC) (UMP) Norazalia Mohd Jamil, co-investigator

Development of Read-Once-Write-All Synchronization Transaction Daemon (ROWA-STD) in Distributed System (UMP) Norazalia Mohd Jamil, co-investigator

Modeling and Simulation for a Quick Steam Food Processing in Vending Machine (UMP) Norazalia Mohd Jamil, co-investigator

The Effect of Strategic Tools in Enhancing Teaching Skills among UMP's New Lecturers (UMP) Mohd Rashid Ab Hamid, co-investigator

Student-Centered Learning: The Effectiveness of Scientific Notebook Software in Learning Integration among Civil Engineering Students (UMP) Mohd Rashid Ab Hamid, co-investigator

Essential Oil Quality and Standards Based on Novel Marker Compounds Isolated and Identified for *Aqualaria malaccensis* (Gaharu) eScience P. Mashitah Mohd. Yusoff

Experimental Rig Design for Production of Biodiesel from *Jatropha* Oil eScience P. Mashitah Mohd. Yusoff

Aedes Pheromone: Isolation, identification and characterization of pheromones from *Aedes aegypti* MOH co-investigator Mashitah Mohd. Yusoff.

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Wan Muhammad Arni Bin Wan Ahmad, **Norhayati Rosli**, Nozlan Mohamed and Zaila. Ail. 2006. Identification Of Time Series Model: An Application Part, *Jurnal Statistika*, Fakultas Matematika & Ilmu Pengetahuan Alam, Universitas Islam Bandung, Volume 6(1) Jun.

Wan Muhammad Arni Bin W Ahmad, Ny Ny Niang, **Norhayati Rosli**, An Approach of Box-Cox Data Transformation To Biostatistics Experiment. 2006. *Jurnal Statistika*, Fakultas Matematika & Ilmu Pengetahuan Alam, Universitas Islam Bandung, 6(2) Desember.

A. Noraziah, M.Mat Dels, M.Y.M. Saman, **R. Norhayati**, M.Rabiei, W.N.W. Shuhadah. 2007. Managing Neighbour Replication Transactions in Distributed Systems. *International Journal of Computer Mathematics*, 83 (12).

A.Noraziah, M.Mat Dels, N.A.Ahmed, M.Y.Saman, **R.Norhayati**, M.A.Zeyad. 2007. Preserving Data Consistency through Neighbor Replication on Grid Databases. *American Journal of Applied Sciences* 4(10): 748-755.

Norhayati Rosli and Wan Muhammad Arni Wan Ahmad. 2007. A Minkowski Inequality for k functions. *Jurnal Mathematica*, Universiti Teknologi Malaysia, 23(1).

Had Nur, **Izan Izwani Mison**, Lim Kheng Wei. 2007. "Stannic Oxide-Titanium Dioxide Coupled Semiconductor Photocatalyst Loaded with Polyaniline for Enhanced Photocatalytic Oxidation of 1-Octene", *International Journal of Photoenergy*. Article ID 98548, 6 pages, 2007. doi:10.1155/2007/98548.

Ng Yun Hau, **Izan Izwani**, Had Nur, Mohd Nizam Mohd Muhi and Halmaton Hamdan. 2007. "Biphasic epoxidation of 1-octene with H₂O₂ catalyzed by amphiphilic fluorinated Ti-loaded zirconia", *Journal of Fluorine Chemistry*, 128: 12-16.

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Nor Haniza Samin and **Mohd Sham Mohamad**. 2004. Teori Kumpulan Dan Getaran Molekul. *Discovering Mathematics*, 26 (1): 26-35.

WORKSHOPS/CONFERENCES/PROCEEDINGS

Mashitah Mohd. Yusoff and **Saiful Nizam Tajuddin**. 2008. Review of the Analytical Method to Discriminate Gaharu Based on Geographical Origin. Paper presented at Asia Pacific NAFPO Pre-Conference, 26 March, Kuala Lumpur. MIGH-Melaka

Saiful Nizam Tajuddin and **Mashitah Mohd. Yusoff**. 2008. Analysis of volatile compounds in agarwood oil using smpc and gc-ms. Paper presented at Malaysian International Conference on Essential Oil, 28-30 October, Kuala Lumpur. KM

Saiful Kamaluddin and Shahidan Shahidan Radman. Synthesis and characterization CdS nanoparticles in foams. Proceeding of Electron Microscopy Society of Malaysia 2003, Langkawi.

Saiful Kamaluddin dan Shahidan Radman. Kajian struktur mikroemulsi menggunakan teknik serakan sudut kecil sinar-x. Prosiding Kokokum Sewatoh ke 5, 2005, UKM Bangi.

P.S. Khiew, **Saiful Kamaluddin**, Shahidan Radman and K. Nadarajah. ZnS nanoparticles and foam synthesized in chitosan laurate micellar solutions. Book of abstract of Glycolipid Group Seminar 2004, Cyberjaya.

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Damanhuri N.A & Majid A.A., 2006. Subdivision Algorithm for Smoothing down Irregular Shaped Polyhedrons, Proceedings of the Computer Graphics, Imaging and Visualization, 25-18 July 2006, Sydney Australia.

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Damanhuri N.A, 2005. Smooth Piecewise Surfaces on Irregular Polyhedron, Proceedings of the UPM Workshop on CAGD, 2 December 2005, Pulau Pinang.

Damanhuri N.A 2006. Interpolating Subdivision for Meshes with Arbitrary Topology. Seminar Kebangsaan Sains Kuantitatif 2006, 19-21 December 2006, UUM Langkawi.

Damanhuri N.A, 2007. Generalizing Trigonometric Surfaces to Arbitrary Meshes. *Applied Math and Computation* (187), 2007, Kuala Lumpur.

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Mardiah Mohd Lokman, **Zaiful Matizawati** and **Mohd Sham Mohamad** (2007) - Proceeding, Solving Obnoxious Facility Location Problem using Simulated Annealing, 1st National Seminar on Numerical Optimization & Operational Research Proceeding.

Nor Haniza Samin, Hasniawati Mat Yusoff and **Mohd Sham Mohamad** (2004)-Proceeding, Rationalization of Molecular Vibrations of Water (H₂O) and Ammonia (NH₃) Molecules Via Group Theory. Annual Fundamental Science Seminar 2004 (AFSS 2004) Proceeding, (2004) pp 304-311.

Nor Haniza Samin and **Mohd Sham Mohamad** (2004) -Proceeding, Satu Aplikasi Teori Kumpulan Dalam Bidang Spektroskopi. Prosiding Seminar Mengenalang Jasa Profesor Dr. Shahrul Mohamad Zan (2004) pp 91-98.

Suyanti Awang, Mohd Nizam Mohamad Kahar, **Norazalia Mohd Jamil** & Khairul Anwar Aidi. "A Satisfaction Survey on UKTEM Automated Examination Scheduling". Malaysian Science and Technology Congress 2006 (MSTC 2006).

Norazalia Mohd Jamil, Noraziah Ahmad & Shaharuddin Saleh. "Graph Partitioning Technique for Separating Nets in Single-row Networks". 7th International Symposium on Distributed Computing and Applications for Business Engineering and Science, vol. 2, pp. 775-779, 2008.

Noraziah Ahmad, Suyanti Awang, Noshabah Yaloh, **Norazalia Mohd. Jamil**. "Block Segmentation in Cross Stitch Application". 7th International Symposium on Distributed Computing and Applications for Business Engineering and Science, vol. 1, pp. 254-257, 2008.

Noorin Mohd Ali, **Siti Zanariah Safari**, Lee Hai Yeoh. Evaluating Diabetes Risk Using Knowledge-based System and Probability Technique. Paper presented in Malaysia-Japan International Symposium on Advanced Technology 2007 (MUSAIT2007).

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Mohd Nizam Mohamad Kahar, Abdulah Mat Sali, **Siti Zanariah Safari**, Mohd Fadli Zulkifli. Password Usage: An Analysis in Academic Institution. Paper presented in National Conference of Software Engineering & Computer Systems 2007 (NaCSES07), Legend Resort, Cheating (20-21 Ogos 2007)

● FIST Graduate News

Sik Ruoh Yean, MSc candidate in Industrial Chemistry (supervisor: Mashitah Mohd. Yusoff) has assumed the position of Application Chemist with Agilent (M) Sdn. Bhd., Petaling Jaya, Selangor.

Chia Keh Leong, MSc candidate in Industrial Chemistry (supervisor: Mashitah Mohd. Yusoff) has been offered the position of Assistant Lecturer with Curtin University of Technology (M), Mt. Sarawak.