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Personal Details

Family Name : Ab Rani
First Name : Mohd Azri
D.O.B. : 6th June
Gender : Male
Current Position : Senior Lecturer, Faculty of Applied Sciences UiTM Shah Alam Malaysia.

Education Background

1. Post Doctoral, Kyoto University, Japan. (1st April 2015 – 31st March 2017)
2. Doctor of Philosophy, Imperial College London, UK. Graduated on 1st November 2012.
3. Master Science (Chemistry), Universiti Kebangsaan Malaysia. Graduated on 9th August 2008.
4. Bac. Science (Hons.) – Petroleum Chemistry, Universiti Putra Malaysia. Graduated on 13th July 2006.

Special Recognitions

1. Invited Researcher from Chemistry Department, Imperial College London. From 13th July 2013 – 7th September 2013.
2. Invited Speaker for Motivation Program; An Inspired Talk, From *Felda Keratong* (Rural Area) To The World Class University, Universiti Teknologi MARA Terengganu, Malaysia. 7th Dec 2013.
3. Invited Speaker from Chemistry Department, University of Natural Resources and Applied Life Sciences, Vienna, Austria on 11th April 2011.

Awards.

1. **SPECIAL AWARD IN INNOVATION** at The Asia Innovation Show 2018.
2. **GOLD Award** at The Asia Innovation Show 2018.
3. **GOLD Award** at The 4th International Innovation Design and Articulation (i-IDEA) 2018.
4. **GOLD Award** at the Invention , Innovation, Design Exposition (iindex) 2017.

5. **GOLD Award** at the International Invention, Innovation & Design Competition (IIID) Johor 2017.
6. **Uthman Ibn Al Affan Best Commercial Product** at the International Exposition on Syariah Compliant Idea, Invention, Innovation & Design (ISCIID) 2016.
7. **GOLD Award** at the International Exposition on Syariah Compliant Idea, Invention, Innovation & Design (ISCIID) 2016.
8. **GOLD Award** at the Invention , Innovation, Design Exposition (iidex) 2016.

List of Publications

1. **M. A. Ab Rani**, Jinkwang Hwang, Kazuhiko Matsumoto, and Rika Hagiwara. Poly(vinyl chloride) Ionic Liquid Polymer Electrolyte Based on Bis(fluorosulfonyl)Amide for Sodium Secondary Batteries. *Journal of The Electrochemical Society*, 164 (8) H5031-H5035 (2017).
2. Tome LC, Gouveia ASL, **Ab Rani MA**, Lickiss PD, Welton T, Marrucho IMclose. Study on Gas Permeation and CO₂ Separation through Ionic Liquid-Based Membranes with Siloxane-Functionalized Cations. 2017. *INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH*, 2017 (56) 2229-2239.
3. Rosli NH, Ahmad NM, **Ab Rani MA**, Fernandez C, Zain ZM The Electroanalytical Detection of Triglyceride Concentrations in Olive Oil using Modified Screen Printed Electrodes with Ionic Liquid [1-(2-Ethoxyethyl)-1-Methylpyrrolidinium Bis(Trifluoromethylsulfonyl)Imide]-Lipase. *Int J Biosen Bioelectron* 2(5): 00040. (2017)
4. **M.A. Ab Rani**, Kazuhiko Matsumoto, and Rika Hagiwara Ionic Liquid Polymer Electrolyte Based on Bis(fluorosulfonyl)Amide for Sodium Secondary Batteries. *ECS Trans.* 2016 75(15): 431-436.
5. **M. A. Ab Rani**, N. Borduas, V. Colquhoun, R. Hanley, H. Johnson, S. Larger, P. D. Lickiss, V. Llopis-Mestre, S. Luu, M. Mogstad, P. Oczipka, J. R. Sherwood, T. Welton and J-Y. Xing . The potential of methylsiloxanes as solvents for synthetic chemistry applications. *Green Chem.* 2014, **16**, 1282-1296
6. A. H. Ahmad, N. Hassan, **M. A. Abrani**. Preparation and characterization of sodium binary system (NaI–Na₃PO₄) inorganic solid electrolyte. *Ionics*. 2013, 1-9.
7. S. Bulut, **M. A. Ab Rani**, T. Welton, P. D. Lickiss and I. Krossing. Preparation of [Al(hfip)₄]-Based Ionic Liquids with Siloxane-Functionalized Cations and Their Physical Properties in Comparison with Their [Tf₂N]-Analogues. *ChemPhysChem*, 2012, 13, 1802-1805.

8. M. A. Ab Rani, A. Brant , L. Crowhurst , A. Dolan , M. Lui , N. H. Hassan J. P. Hallett , P. A. Hunt, H. Niedermeyer , J. M. Perez-Arlandis , M. Schrems , T. Welton and R. Wilding. Understanding the polarity of ionic liquids. *Phys. Chem. Chem. Phys.*, 2011, **13**, 16831-16840.
9. H. Niedermeyer, M. A. Ab Rani, P. D. Lickiss, J. P. Hallett, T. Welton, A. J. P. White and P. A. Hunt. Understanding siloxane functionalised ionic liquids. *Phys. Chem. Chem. Phys.*, 2010, **12**, 2018-2029.

Oral Presentations

1. Pacific Rim Meeting on Electrochemical and Solid State Science (PRIME, Honolulu, Hawaii, US. 2nd- 7th October 2016.
2. Molten Salt Discussion Group (MSDG) '2011, University of Cambridge, 5th-6th July 2011.
3. Post Graduate Symposium, Imperial College London, 11th July 2011.
4. International Conference on Natural Products, Shah Alam Convention Centre (SACC), Selangor, Malaysia. 4th-6th March 2013.
5. International Conference on Ionic Liquids 2013, Langkawi Island, Malaysia. 11th-13th Dec 2013.