

Credentials (IOS Researcher)



RI HANUM YAHAYA SUBBAN

B Sc. Hons. (Physics) Universiti Malaya
M Tech. (Materials Science) Universiti Malaya
Ph. D (Advanced Materials) Universiti Malaya

Current roles and responsibilities:

1. Professor , Faculty of Applied Sciences
2. Researcher, Institute of Science

Honors Awards & Showcase:

1. IIDEX Silver Award, Invention and Innovation Design and Expo
2. ITEX Silver Medal, 18th International Invention, Innovation and Technology Exhibition, 2007

Selected Journals & Publications

- Sodium iodide added chitosan electrolyte film for polymer batteries R.H.Y. Subban, A.K. Arof and S. Radhakrishna Physica Scripta 53, 382-384, 1996
- Charge-discharge characteristics of LiCoO₂/MCMB battery with PVC-based composite polymer electrolyte R.H.Y. Subban and A.K. Arof Journal of Power Sources 134, 211-221, 2004
- Characterisation of polyvinyl chloride/polyethyl methacrylate polymer blend for use as polymer host in polymer electrolytes N.A. Zakaria, M.I.N. Isa, N.S. Mohamed, R.H.Y. Subban Journal of Applied Polymer Science 126, 419-424, 2012
- Properties of PEMA-NH₄CF₃SO₃ added to BMATSFI ionic liquid N. K. Anuar, R.H. Y. Subban, N.S. Mohamed Materials 5, 2609-2620 2012
- Conductivity and electrochemical studies on polymer electrolytes based poly vinyl(chloride- ammonium triflate- ionic liquid for proton battery S. K. Deraman, N.S. Mohamed and R.H.Y. Subban Int. J. Of Electrochem. Sc. 8 1459-1468 2013

Research Grant

- Effects of ionic liquid on ion-ion interaction in polymer electrolytes – **RM 86700**
- Interfacial adhesion of incompatible hexanoyl chitosan /epoxidised natural rubber blends with addition of inorganic salt– **RM 111400**
- Investigation of charge transport mechanism and charge transitions in lithium manganese iron oxide – **RM 172000**
- Development of nanocomposites polymer electrolyte – **RM 169496**
- Synthesis and characterization of some novel energy storage materials- **RM 160497**
- Dielectric behavior in the conductivity anomaly region of doped tellurium oxide glasses– **RM 71000**

Books

- Comprehensive College Physics Upgraded, ISBN 978 967 321 482 2, 2016 SAP Publications (M) Sdn Bhd
- College Matriculation Physics, ISBN 978 983 3993 30 7, 2009, IPTA Publications
- Polymer Electrolytes From Synthesis To Application ISBN 978 967 363 053 0, 2017 UiTM Press
- Definitions, Laws & Formulas in Mechanics ISBN 967-958-205-1, 2005 UPENA UiTM
- College Matriculation Physics 300 Best Problem Solving Strategies ISBN 978 983 3993 12 3, 2007 SAP Publications (M) Sdn Bhd
- College Matriculation Physics, Semester I ISBN 983 2998 63 8, 2006 Higher Learning Publishers Sdn. Bhd.,