

ROSNAH BINTI ZAKARIA
(MyRA IMPACT ACTIVITIES)

Name :	ROSNAH BINTI ZAKARIA
Faculty :	FAKULTI SAINS GUNAAN UNIVERSITI TEKNOLOGI MARA (UiTM)
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BASIC PROFILE

Lecturer DM45/DM46/DM51/DM52/DM53/DM54

Appointments	Date/Year of Appointment
Msc Qualification (Year Obtained)	2001
PhD – Materials Science	2013

POSTGRADUATE SUPERVISION

(Only those within last five years, Please indicate if it is at other institutions)

MASTER (RESEARCH) SUPERVISION COMPLETED (Includes Co-supervision)

	Students Name	Institutions	Year Enrolled	Year End
1				
2				
3				
4				

ON-GOING POSTGRADUATE (RESEARCH) SUPERVISION (Includes Co-supervision)

	Students Name	Institutions	Year Enrolled	Year End
1	Nur Atikah	UiTM	2014	2016
2	Mohd Azreen	UiTM	2016	2018
3				

On-Going PhD SUPERVISION (Includes Co-supervision)

	Students Name	Institutions	Year Enrolled	Year End
1	Nur Syafikah Samsi	UiTM	2014	
2	Mohd Hamizan Selamat	UiTM	2014	

RESEARCH FUNDINGS (State whether Principal/Co-Researcher)

NATIONAL LEVEL ACTIVE RESEARCH FUNDING (MOSTI/FRGS & Others) (Last Five Years)

	Research Project	Source	Total Funds	Begin Year	End Year
1	Co-Researcher (A New Conducting Ion Using Poly Amino Acid)	SAGA	RM180,215.00	August 2005	August 2007
2	Co-Researcher (Development and Characterisation of Nano Paint Prepared From Bio Natural Compound)	FRGS	RM60,000.00	JANUARY 2007	JAN 2009
3	Co-Researcher (Studies of the natural Organic/Inorganic pigments on Silicone-Based Binder for High Temperature Application)	E-Science Fund, MOSTI	RM227,800.00	JANUARY 2007	JAN 2009
4	Leader Interaction Mechanism of ZnS/CdSe Semiconducting Quantum Dot in Recombination Process of	FRGS 2015 - 1	RM108,200.00	2 Nov 2015	1 Nov 2017

	DSSC				
5	Co-Researcher Electron Transport Mechanism of Graphene-Zinc Oxide Semiconductor in Electron Injection of Dye-sensitized solar cells	FRGS 2015-1	RM108,200.00	2 Nov 2015	1 Nov 2017
6	Co-Researcher Upconversion Mechanism of Rare-Earth Doped Gd ₂ O ₃ :M (M=Er ³⁺ , Yb ³⁺) Dye-Sensitized Solar Cells	FRGS 2014-1	RM79,000.00	2 July 2014	20 Jun 2016
7	Co-Researcher Superionic conductor in Poly-Leucine-1,3-Diamino Propane (PLL) doped with NaI-Na ₃ PO ₄ salt	FRGS 2014-1	RM100,000.00	2 July 2014	20 Jun 2016

Dana Kecemerlangan UiTM (Last Five Years)

	Research Project	Total Funds	Begin Year	End Year
1	MULTIFUNCTIONAL BIO-COATING	RM 7,000	2012	2013

Research Incentif Faculty (Last Five Years)

	Research Project	Total Funds	Begin Year	End Year
1	Preparation And Characterization of Mg ₃₀ with Antioxidant Additive Composite Polymer Electrolytes for Electrochemical Devices	RM 32,000	2012	2014

PUBLICATION/ACADEMICS INTERNATIONAL JOURNALS

1. NS Samsi, RM Ali, **R Zakaria**, MZA Yahya, AMM Ali (2015), Electrical Properties of Ammonium Iodide Doped Cellulose Acetate Based Polymer Electrolyte, ICGSCE 2014, 331-338
2. AF Aziz, K Nazir, SF Ayub, **R Zakaria**, MZ Azhan Yahya, M Ali, A Malik (2015) Impedance Behavior of Treated Methyl-Grafted Natural Rubber Polymer Electrolytes. Advanced Materials Research 1107

3. SF Ayub, **R Zakaria**, K Nazir, AF Aziz, MZA Yahya, AMM Ali (2015), The Effect of LiCF₃SO₃ Complexed MG30-PEMA Blend Solid Polymer Electrolyte Advanced Materials Research 1107, 158-162
4. K Nazir, SF Ayub, A Fairoz Aziz, **R Zakaria**, MZA Yahya, AMM Ali (2015), Conductivity and thermal behaviour of epoxidized-30% poly (methyl methacrylate)-grafted natural rubber-lithium triflate based solid polymer electrolytes, Advanced Materials Research 1107, 175-180
5. **R Zakaria**, AH Ahmad,(2016), Rheology behaviour of modified silicone-dammar as a natural resin coating, PHYSICS AND MATERIALS SYMPOSIUM: International Conference on Applied
6. **R Zakaria**, AH Ahmad (2016), Scratch Hatch and Nanoscratch Evaluation of Silicone-Dammar Coating as Soft Coating Resin Materials,Materials Science Forum 846, 702-705
7. NS Samsi, **R Zakaria**, OH Hassan, MZ Azhan Yahya, AMM Ali (2016), X-Ray Diffraction and Infrared Studies on Plasticized Cellulose Acetate Complexed with Ammonium Iodide for Solid Polymer Electrolyte. Materials Science Forum 846, 523-527
8. **Rosnah Zakaria** and Azizah Hanom Ahmad, The performance of Modified Silicone-Dammar in Nanoindentation Test, International Journal of Advanced Science and Technology, Vol. 42, May, 2012
9. **R. Zakaria** and A.H Ahmad, Adhesion and Hardness Evaluation of Modified Silicone-Dammar as Natural Coatings Materials, American Journal of Applied Sciences 9(6): 890-893, 2012 ISSN 1546-9239, Science Publication.
10. **R. Zakaria** and A.H Ahmad, The influence of Dammar Resin as a Natural Resin On Corrosion Protection In Silicone Coatings, American Institute Of Physics (AIP. Con. Pro) Vol 1250,2010 ISBN:978-0-7354-0797-8. (SCOPUS CITED PUBLICATION)
11. **R. Zakaria** and A.H Ahmad, Adhesion and Water Repellent Properties Of Nascent Dammar - Silicone Thin Film: A Bio Mimicry Approach", American Institute Of Physics (AIP. Con. Pro), 2009-Vol 1136 pp166-170(SCOPUS CITED PUBLICATION)
12. A.H. Ahmad, R.H.Y. Subban, **R. Zakaria** and A.M.M. Ali , Comparative Studies on Lil/ Lil- Li₂WO₄-Li₃PO₄/Metal Oxide Electrochemical Cells, Materials Science Forum Vols. 17 (June 2006) pp. 275-277
13. R.H.Y Subban, A.H. Ahmad, **R. Zakaria** and N. Kamarulzaman, Effects of Plasticiser on lithium ionic conductivity of polymer electrolyte PVC- LiCF₃SO₃, Ionics 11(2005)442-446

NATIONAL JOURNAL

1. **R. Zakaria**, N.H.M. Kaus, R.H.Y. Subban and A.H. Ahmad, Effect of Lil on The electrical Copnductivity of $\text{Li}_2\text{WO}_4\text{-Li}_3\text{PO}_4$ Compound, J. of Solid St. Sci. and Techno. Letters, Vol 14, No 2 (2007) 124-129 ISSN 0128-8393
2. A.H. Ahmad, R.H.Y. Subban, M. A. Sulaiman, **R. Zakaria** and N.H. Kaus, FTIR Detection of Polyhedral Structures in Lil- Li_3PO_4 Super ionic compound, J. Solid St. Sci. and Techno. Letters, Vol 12, No 1 (Dec 2005) 75-81 ISSN 0128-8393
3. **R. Zakaria** , N.H. Kaus, M. A. Sulaiman, R.H.Y. Subban and A.H. Ahmad, Effect of Lil ON THE Electrical Conductivity of $\text{Li}_2\text{WO}_4\text{-Li}_3\text{PO}_4$ Compound, J. Solid St. Sci. and Techno. Letters, Vol 12, No 1 (Supplementary) (Dec 2005) 75-81 ISSN 0128-8393

PROCEEDINGS

1. A.H. Ahmad, R.H.Y. Subban, **R. Zakaria** and A.M.M. Ali Comparative Studies on Lil/Lil- $\text{Li}_2\text{WO}_4\text{-Li}_3\text{PO}_4$ /Metal Oxide Electrochemical Cells in “**Functional Materials and Devices**”, 2006 TRANS TECH PUBLICATIONS, Switzerland