TIER 5 – RESEARCH INITIATIVE GROUP (RIG)

Name of RIG	**:**	**ELECTROACTIVE MATERIALS (EM)**
Registration Code	**:**	**CoRe108/T5/2016(13)/FMIA(08)**
Tier	**:**	**5**
Leader	**:**	**Dr. Rosnah Binti Zakaria**
CoRe	**:**	**Frontier Materials and Industrial Application (FMIA)**
Registered Faculty	**:**	**Faculty of Applied Sciences**
Registration date (Senate Approval)	**:**	**10 May 2016**
UiTM Niche Area	**:**	**Advanced Materials for Energy Applications**
RIG Niche Area	**:**	**Research on Electrochemical Devices (Synthesis & Computational)**

BACKGROUND OF MEMBERS

BIL	NAMA	KELAYAKAN AKADEMIK	FAKULTI	BIDANG KEPAKARAN
1	ASSOC. PROF. DR. OSKAR HASDINOR BIN HASSAN	PhD	Seni Lukis & Seni Reka	Ceramics, Cathode Materials, Fuel Cell, Computational
2	DR. ROSNAH BINTI ZAKARIA	PhD	Sains Gunaan	Coating, Solid State Ionic
3	NAZLI AHMAD AINI	MSc	Sains Gunaan	Magnetic Materials, Fuel Cell, Polymer Electrolyte
4	DR. MOHAMAD FARIZ BIN MOHAMAD TAIB	PhD	Sains Gunaan	Computational Materials Sciences, Ferroelectric, Half-metallic Materials
5	DR. MUHAMAD KAMIL BIN YAAKOB	PhD	Sains Gunaan	Multiferroic, Condensed Matter Physics, Computational
6	NOOR ‘AISYAH BINTI JOHARI	MSc	Pusat Asasi	Polymer Electrolyte, Battery
7	FAIZATUL FARAH HATTA	MSc	Pusat Asasi	Polymer Electrolyte, Battery







EM ACHIEVEMENT(2015-2017)

PENCAPAIAN	2015	2016	2017
Master Degree – Enrolled/On-Going	6	3	3
Master Degree - Graduated	0	0	0
PhD – Enrolled/On-Going	2	2	3
PhD – Graduated	1	4	0
No. of research grants	5	2	7
Total value of research grants (RM)	408,400.00	405,600.00	303,200.00
Total publication (Indexed Journals)	10	19	15
Total publication (Non-indexed Journals)	28	4	10
IPR (Patent, Industrial design, Copyright)	1	0	0

OTHER ACHIEVENMENT EM (2014-2016)

ACHIEVEMENT	2015	2016	2017
NO. OF CONSULTANCY/ INDUSTRIAL LINKAGE/ COLLABORATION (National & International)	1	0	0
NO. OF MEMBERSHIP OF PROFESSIONAL BODIES AND ASSOCIATIONS (National & International)	3 (EMS, MASS, etc.)	4 (EMS, MASS, etc.)	4 (EMS, MASS, etc.)
NO. OF SPECIAL INVITATION/ APPOINTMENT/ EXPERTISE (National & International) incl. Keynote Speaker, Invited speaker, Thesis examiner, Judge, Reviewer, Panel, etc.)	4	8	17
NO. OF AWARDS/ RECOGNITION AND APPRECIATION (National & International)	5	10	4

Niche Area and Relevance of RIG

Electroactive Materials research group is formed to promote the development of synthesis, characterization and computational investigations of advanced materials for energy applications.

- Many activities emphasize on the following areas:

1. Design and analysis of advanced materials based on experimental and computational quantum mechanical method
2. Development of new materials, high performance of electrochemical devices
3. Correlation of existing materials properties and their fundamental knowledges such as condensed matter physics, quantum mechanics and solid state ionic.
4. Knowledge and scientific skill transfer to students and other collaborators includes synthesis, characterization and computational techniques.