

RIG/Centre :
NANO-ElecTronic
Research Group
(NET)





CoRe : FMIA
Faculty : FKE
Universiti
Teknologi MARA







TIER 5 – RESEARCH INITIATIVE GROUP (RIG)

Name of RIG	:	NANO-ElecTronic Research Group (NET)
Registration Code	:	CoRe89/T5/2015(24)/FMIA(13)
Tier	:	5
Leader	:	Dr. Mohamad Hafiz bin Mamat
CoRe	:	Frontier Materials and Industrial Application (FMIA)
Registered Faculty	:	Electrical Engineering
Registration date (Senate Approval)	:	19 November 2015
UiTM Niche Area	:	Industry 4.0
RIG Niche Area	:	Nanoelectronics

Background of Members

	Name of Leader & Members	Faculty	Qualification	Area of Expertise
	Mohamad Hafiz bin Mamat	FKE	PhD	Nanosensor Solar cell Nanofabrication
	Ahmad Sabirin bin Zoolfakar	FKE	PhD	Sensor, Nanotechnology, Solar Cells, Memristor
	Zurita Binti Zulkifli	FKE	PhD	Transparent and conductive thin film for FED graphene hybrid devices
	Shafinaz Sobihana Bt Shariffudin	FKE	PhD	Organic LED Thin Film Fabrications Nanoelectronics

Background of Members (Cont')

	Name of Leader & Members	Faculty & Staff No.	Qualification	Area of Expertise
	Puteri Sarah Mohamad Saad	FKE	PhD	Nanotechnology Optoelectronic Devices Organic Solar Cells
	Norulhuda Abd Rasheid	FKE	MSc	Solar Cell
	Uzer Mohd. Noor	FKE	MSc	Optoelectronics material and Devices
	Mohamad Fariz Bin Mohamad Taib	FSG	PhD	Nanomaterial Computational Analysis

Niche Area and Relevance of RIG

Niche Area: Nanoelectronics

- Optical sensors (UV and Vis sensors)
- Humidity sensors
- Gas and chemical sensors (oxygen, ethanol, etc)
- Solar cells (DSSC, organic solar cells)
- Nanometal oxide related research (ZnO, CuO, NiO, NbO, TiO₂, etc)
- Nanocarbon and polymer related research (graphene, CNTs, amorphous carbon, etc)

NET ACHIEVEMENT(2014-2017)

PENCAPAIAN	2014	2015	2016	2017
Master Degree – Enrolled/On-Going	8	13	15	16
Master Degree - Graduated	0	0	2	1
PhD – Enrolled/On-Going	3	4	6	8
PhD – Graduated	1	0	0	1
No. of research grants	2	5	3	6
Total value of research grants (RM)	149,886.25	447,100	30,000	389,360
Total publication (Indexed Journals)	114	49	64	36
Total publication (Non-indexed Journals)	0	26	0	1
IPR (Patent, Industrial design, Copyright)	0	5	2	6

OTHER ACHIEVEMENT NET (2014-2017)

ACHIEVEMENT	2014	2015	2016	2017
NO. OF CONSULTANCY/ INDUSTRIAL LINKAGE/ COLLABORATION (National & International)	2	3	4	4
NO. OF MEMBERSHIP OF PROFESSIONAL BODIES AND ASSOCIATIONS (National & International)	10	11	10	11
NO. OF SPECIAL INVITATION/ APPOINTMENT/ EXPERTISE (National & International) incl. Keynote Speaker, Invited speaker, Thesis examiner, Judge, Reviewer, Panel, etc.)	37	47	55	64
NO. OF AWARDS/ RECOGNITION AND APPRECIATION (National & International)	7	11	15	25

PUBLICATIONS

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	Document title	Authors	Year	Source	Cited by
<input type="checkbox"/> 1	Enhanced humidity sensing performance using Sn-Doped ZnO nanorod Array/SnO ₂ nanowire heteronetwork fabricated via two-step solution immersion	Ismail, A.S., Mamat, M.H., Yusoff, M.M., (...), Ahmad, M.K., Rusop, M.	2018	Materials Letters 210, pp. 258-262	0
	View abstract ▾ View at Publisher Related documents				
<input type="checkbox"/> 2	Electrical and optical characteristics of atmospheric pressure plasma needle jet driven by neon	Elfa, R.R., Ahmad, M.K., Soon, C.F., (...),	2017	AIP Conference Proceedings 1883,020026	0

- Conference proceeding: 448
- Journals: 147

Networking

- UM (Low Dimensional Materials Research Centre (LDMRC), Department of Physics, Faculty of Science)
- *UTHM* (Microelectronic and Nanotechnology Shamsuddin Research Centre (MiNT-SRC), Faculty of Electrical and Electronic Engineering)
- *UPSI* (Nanotechnology Research Centre, Faculty of Science and Mathematics)
- *MIMOS*