



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

CURRICULUM VITAE



PERSONAL DETAILS

Name : JUAN BIN MATMIN

Gender : MALE

Date of Birth : 03 SEPTEMBER 1986

Nationality : MALAYSIAN

Marital Status : MARRIED

Address : 25, JALAN PULAI PERDANA 3/5, TMN SRI PULAI PERDANA,
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Website : <https://people.utm.my/juanmatmin/>

ID Staff : 15365

Expertise : Supramolecular Chemistry, Metal Organic Frameworks,
Chemosensors, Color Tunable Materials, Nanomaterials, Material Characterization,
Polymers Engineering, Nanomaterials Synthesis, Nanostructured Material

ACADEMIC QUALIFICATIONS

NO	LEVEL OF EDUCATION	COURSE	UNIVERSITY	STARTING DATE	ENDING DATE
1	PhD Degree	Chemistry	UTM	2012	2016
2	Master Degree	Chemistry	UTM	2009	2012

		(Research)			
3	Bachelor	Industrial Chemistry	UTM	2005	2008

AWARD AND HONORS RECEIVED

NO	AWARD	LEVEL (FACULTY /UTM /NATIONAL /INTERNATIONAL)	YEAR
1	Grand Prize	Malaysia Toray Science Foundation (MTSF)	2019
2	Anugerah Perkhidmatan Cemerlang (APC) UiTM	Universiti Teknologi Mara (UiTM)	2019
3	Runner-Up Prize	Malaysia Toray Science Foundation (MTSF)	2018
4	Gold Award	e-CONDEV 2018	2018
5	Silver Award	IIID 2018	2018
6	Silver Award	AICD 2018	2018
7	Best Poster	Second International Conference and Workshops on Basic and Applied Sciences Regional Annual Fundamental Science Seminar (ICORAFSS 2009)	2009
8	National Science Fellowship (NSF)	Ministry of Science Technology and Innovation (MOSTI)	2009

PROFESSIONAL MEMBERSHIP / QUALIFICATIONS / RECOGNITION

NO	NAME OF PROFESSIONAL MEMBERSHIP	LEVEL (FACULTY /UTM /NATIONAL /INTERNATIONAL)	ROLE	YEAR
1	International Zeolite Association (IZA)	International	Member	2018
2	Malaysia Biomaterials Society	National	Lifetime Member	2018
3	Persatuan Sains dan Teknologi Keadaan Pepejal Malaysia (MASS)	National	Lifetime Member	2019

ADMINISTRATIVE EXPERIENCE

NO	POSITION	STARTING DATE	ENDING DATE	DEPARTMENT
1	Head	2020	2022	Green Chemistry Research Group, Faculty of Science UTM

2	Head	2018	2019	Research Lab Centre Of Foundation Studies UiTM
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WORKING EXPERIENCE

NO	POSITION	STARTING DATE	ENDING DATE	DEPARTMENT/ORGANISATION
1	Senior Lecturer (DS 51)	2 nd May 2019	Presence	Chemistry
2	Lecturer (DM45)	2016	APRIL 2019	Centre of Foundation Studies UiTM Dengkil
3	Research Assistantship	2012	2016	Ibnu Sina, Institute For Fundamental Science Studies
4	Technical Executive Technologist	2010	2012	Synthomer (Revertex) Sdn. Bhd.

CONSULTANCY EXPERIENCE

NO	NAME OF CONSULTANCY	ROLE	AMOUNT (RM)	STARTING DATE	ENDING DATE	VOTE NO
1	W2W BASF-UTM 2020	Researcher		2020		

FACULTY APPOINTMENT COMMITTEE

NO	NAME OF COMMITTEE	ROLE	STARTING DATE	ENDING DATE
1	Latihan Industri/ Penyelidikan Semester III, Sesi 2020/2021	Penyelia	10/6/2020	31/10/2020
2	Task Force Pemurnian Manual Amali Kimia Tak Organik I (SSCC 1851)	Ahli Jawatankuasa	1/9/2020	31/12/2020
3	University-Visible-Industry-Symbiosis (UVIS) Jabatan Kimia	Ahli Jawatankuasa	1/9/2020	31/8/2022
4	Task Force Myroadmap Living Lab Jabatan Kimia	Ahli Jawatankuasa	1/9/2020	31/8/2022
5	Badan Kebajikan Dan Rekreasi Jabatan Kimia	Ahli Jawatankuasa	1/8/2020	31/7/2022
6	Jawatankuasa Pembangunan Pelajar Jabatan Kimia	Ahli Jawatankuasa	1/8/2020	31/7/2022
7	Jawatankuasa Kualiti Akademik Jabatan Kimia	Ahli Jawatankuasa	1/8/2020	31/7/2022
8	Jawatankuasa Program Jabatan Kimia	Penyelaras Dan Pembantu Penyelaras	1/8/2020	31/7/2022
9	Undergraduate Final Year Project 2 Session 2019/2020	Examiner	28/7/2020	

10	Soalan Peperiksaan Akhir Semester II Sesi 2019/2020 Jabatan Kimia	Panel Penilai	18/5/2020	21/5/2020
11	Task Force Semakan Kurikulum Program Pra Siswazah Jabatan Kimia	Ahli Jawatankuasa	1/1/2020	30/3/2020
12	Task Force Semakan Kurikulum MSCK2 (Mixed Mode) Jabatan Kimia	Ahli Jawatankuasa	1/1/2020	31/3/2020
13	Task Force Penyediaan Modul Amali Kimia Tak Organik II Berasaskan Projek	Ahli Jawatankuasa	1/1/2020	31/12/2020
14	Soalan Peperiksaan Akhir Semester 1 Sesi 2019/2020 Jabatan Kimia	Panel Penilai	18/11/2019	21/11/2019
15	Program Future Ready Educators (FREE)	Ahli Sub Group Free	21/10/2019	
16	Penyelarasan Makmal & Instrumentasi Jabatan Kimia	Ahli Jawatankuasa	1/10/2019	30/6/2021
17	Taskforce Program Karnival Kimia Johor (K2J) 2019	Ahli Jawatankuasa	14/9/2019	
18	Task Force University-Industry Symbiosis (UVIS)	Ahli Jawatankuasa	1/9/2019	31/8/2020
19	Bengkel Seven Habits Jabatan Kimia	Penceramah / Fasilitator	21/8/2019	28/8/2019
20	Penyelia Alat Di Jabatan Kimia	Penyelia Alat	1/8/2019	30/6/2021
21	Task Force Majlis Jamuan Hari Raya Dan Majlis Persaraan 2019 Jabatan Kimia	Ahli Jawatankuasa	25/6/2019	
22	Latihan Industri/ Penyelidikan Semester III, Sesi 2018/2019	Penyelia	10/6/2019	31/10/2019
23	Task Force Semakan Kurikulum 2019 Jabatan Kimia	Ahli Jawatankuasa	21/5/2019	
24	Program Asasi UTM Semester II, Sesi 2019/2020	Pensyarah	Sem2 2019/20	

UNIVERSITY APPOINTMENT COMMITTEE

NO	NAME OF COMMITTEE	ROLE	STARTING DATE	ENDING DATE
1	Lantikan Penyelia Bersama calon	Penyelia	31/5/2019	

	ijazah UiTM			
2	Head of Research Group Green Chemistry Research Group, Faculty of Science UTM	Head	2020	2022

SELECTED ACTIVITIES / WORKSHOPS / SEMINARS / COURSES

NO	NAME OF ACTIVITIES	PLACE OF ACTIVITIES	STARTING DATE	ENDING DATE
1	Seminar on Light Scattering: Indepth Understanding of Particle Characteristics	UiTM Dengkil	20/7/2018	
2	Emerging Research Leaders Series	Institut Kepimpinan & Pembangunan (ILD)	2-4/5/2018	
3	Facilitator of Workshop for Pemurnian Kertas Cadangan Geran Penyelidikan Dana DUCS	UiTM Dengkil	19/1/2018	
4	In-house Training for Arduino	UiTM Dengkil	15/12/2017	
5	Hands On Prisma, Scorpus Dan Mendeley	UiTM Dengkil	31/5/2017	
6	Massive Open Online Course (MOOC)	UiTM Dengkil	15-16/5/2017	
7	Bengkel Pemantapan Penulisan Geran FRGS	UiTM Dengkil	20/1/2017	
8	Seminar Harta Intelek	UiTM Dengkil	23/11/2016	
9	Bengkel Pentaksiran Soalan Kimia (CHM096)	UiTM Dengkil	14-16/11/2016	
10	Research Proposal Writing Workshop	Institut Pengurusan Penyelidikan & Inovasi (IRMI)	15/4/2016	
11	Bengkel Pra Pengurusan Nilai (VM)	UiTM Dengkil	10-11/2/2016	
12	One Day EU-AEAN Symposium and Workshop on Photocatalysis	Centre for Sustainable Nanomaterials (CSNano), UTM	24/11/2015	
13	Instrumentations Trainings on X-Ray Diffractometer with High Resolution (HR-XRD)	UTM, Johor	14-24/11/2015	

14	Anton Paar Seminar and Workshop	Centre for Sustainable Nanomaterials (CSNano), UTM	19-20/10/2015	
15	Instrumentations Trainings on Shimadzu Raman Spectroscopy	UTM, Johor	28/9-1/10/2015	
16	Analytical Applications & Chromatography Instruments Applications & Methods in Chemistry	UTM, Johor	21-22/9/2015	
17	Material Characterization by Thermal and Chemical Analysis	UTM, Johor	24/8/2015	
18	Direct Analysis In Real Time (DART)	UTM, Johor	5&17/5/2015	
19	Malvern Zetasizer ZSP Application Training	UTM, Johor	12-13/5/2015	
20	Elementar Vario Micro Cube for CHNS & O	UTM, Johor	12-13/5/2015	
21	Instrumentations Trainings on Shimadzu Gas Chromatography (GC-FID)	UTM, Johor	27-30/4/2015	
22	Instrumentations Trainings on Shimadzu Gas Chromatography (GC-FID)	UTM, Johor	27-30/4/2015	
23	Instrumentations Trainings on Shimadzu Gas Chromatography Mass Spectrometer (GCMSMS)	UTM, Johor	20-23/4/2015	
24	Instrumentations Trainings on Shimadzu Total Organic Carbon TOC SSM	UTM, Johor	14-15/4/2015	
25	Agilent Ion Mobility Q-TOF LC/MS Training	UTM, Johor	3-5/3/2015	
26	Training in the Usage of Leica DM2700P Polarizing Upright Compound Microscope and Imaging Software	UTM, Johor	27-28/10/2014	
27	Fundamental and Method Development in Recycling Preparative Liquid Chromatography Training	UTM, Johor	7-9/10/2014	

28	User Familiarization and Operational Training	UTM, Johor	26-28/8/2014	
29	Seminar on Nano and Micro Scale Particles Characterization	UTM, Johor	19/8/2014	
30	Malvern Zetasizer ZSP Application Specialist Training	UTM, Johor	18-20/5/2014	
31	Operational Training on ThermoScientific Surface Area Analyzer	UTM, Johor	17-20/3/2014	
32	Characterisation Technology Workshop	UTM, Johor	19/3/2014	
33	Thermo Flash 2000 User Training	UTM, Johor	18-20/2/2014	
34	Agilent Spectroscopy Seminar	UTM, Johor	8/1/2014	

RESEARCH ACTIVITIES

BIL	NAME OF GRANT	ROLE	CATEGORY OF GRANT(UTM/OTHERS)	TYPE OF GRANT	AMOUNT (RM)	STARTING DATE	ENDING DATE	VOTE NO
1.	Water Polymer Interaction in Starch	Principal Investigator	UTM	GUP	RM29,800	2019	2020	
2.	Mechanistic Study Of Nano-Structured Cerium Oxide Based Catalysts For Low Reaction Temperature Of CO ₂ /H ₂ Methanation	Co-Researcher	MOE	FRGS	RM 93,200	2018	2020	FRGS/1/2018 /STG01/UTM/02/3
2.	Studies of Ruthenium Alkynyl Complexes with Azobenzenes Derivatives as Potential Polymeric Nonlinear Optic (NLO) Material	Co-Researcher	MOE	FRGS	RM 94,552	2017	2019	FRGS/1/2017 /STG01/UTM/02/2
3.	Fabrication And Characterization of Biosynthesized Green Silver Nanoparticles Immobilized On Synthesized Zeolite	Co-Researcher		UTM-TDR 17.3 (T2)	RM 37,640	2016	2018	PY/2018/03237
4	Biomediated Shape and Size Control Synthesis	Principal		UTM-TDR 17.2(T1)	RM 50,500	2016	2018	PY/2018/03255

	of Silver Nanoparticles using Malaysian Herbal Plant Extract							
5	Formulation of Labelling Framework Based on Precautionary Principle in Governing Nanofood Products in Malaysia	Co-Researcher	MOE	FRGS	RM 60,000	2017	2019	FRGS/1/2019/SSI10/UITM/03/1
6	Stable ion conduction mechanism of nanohybrid polymer electrolytes based on seaweed kappa-carrageenan	Co-Researcher	MOE	FRGS	RM 113,950	2017	2019	FRGS/1/2019/STG02/UITM/02/6
7	Transesterification of palm olein oil to fatty acid methyl ester using CaO-sugar cane bagasse ash as heterogeneous basic catalyst	Co-Researcher		RACER	RM 51,200	2017	2019	RACE R/1/2019/STG01/UITM/6
8	Synthesis and Functionalisation of Palladium-Porphyrin Compound for the Fabrication of Covalently Bonded Ratiometric Oxygen Sensor.	Co-Researcher			RM 20,000	2017	2019	PY/2019/00369
9	Bright Liquid Crystals Displays (LCDs) Characteristics of Benzene-1,3,5-tricarboxamides by Aggregation-Induced Emission	Principal Investigator		FRGS	RM 72'200	2016	2018	FRGS/1/2018/STG07/UITM/03/5
10	Direct-Continuous Preparation of Nanostructured Silica Using Surfactant-Free Non-Scaffold Hydrolyzed Rice Starches Template	Co-Researcher		DUCS	RM 20'000	2016	2018	600-UiTMS EL (Pi. 5/4) (044/2018)
11	One-Pot Surfactant-Free	Principal Investigator		LESTAR I 2017	RM 20'000	2015	2017	00-IRM/D

	Synthesis of Non-Agglomerated and Thermally Stable Titanium Silicate by Molecular Entrapments of Starches	ator						ana KCM 5/3/LE STARI (118/2017)
12	Modified SnS ₂ Photocatalyst for Dye Wastewater Treatment	Co-Researcher		MyRA LESTAR I 2017	RM 20'000	2015	2017	600-IRMI/MyRA 5/3/LE STARI (095/2017)

TEACHING ACTIVITIES

UNDERGRADUATE

YEAR OF SEMESTER	SEMESTER (1/2)	SUBJECT CODE	NAME OF SUBJECT	CREDIT HOUR	SECTION
2020/2021	2	SSCC4733	RADIOCHEMISTRY	3	1
2020/2021	2	SSCC 4793	INORGANIC ENERGY MATERIALS	3	1
2018/2019	2	SSCC4733	RADIOCHEMISTRY	3	1
2019/2020	2	SSCC4763	NANOCHEMISTRY	3	1
2019/2020	1	SSCC4773	INORGANIC AND ORGANOMETALLIC POLYMERS	3	1
2019/2020	1	SSCC1703	INORGANIC CHEMISTRY	3	1

SUPERVISION

PHD STUDENTS

PhD Co Supervisor

No	Name	Status (Graduated/Ongoing)	Title	Date
1	Atieya binti Abd Hadi	Ongoing		2019
2	Ashiru Abubakar	Ongoing		2017

	Garba			
3	Siti Nabihan binti Ishak	Ongoing		2017

MASTER STUDENTS

Master by Research (Co Supervisor)

No	Name	Status (Graduated/Ongoing)	Title	Date
1	Norfazreen binti Saffee	Ongoing		2016
2	Fazleen binti Kamaludin	Ongoing		2017

UTM POSTGRADUATE EXAMINATION / VIVA

MASTER BY MIXED-MODE

NO	ROLE	NAME OF STUDENT	TITLE	YEAR
1	Examiner	SALAHAEDIN WAIEZI MMB182014	ANTIBACTERIAL ACTIVITY OF BIOSYNTHESIS SILVER NANOPRACTICULAR USING CLINACANTHUS NUTANS EXTRACT	2020
2	Examiner	SARAH SYAFIQAH JAJULI	FRUIT WASTE MEDIATED SYNTHESIS OF SILVER NANOPARTICLES AND BIOREMEDIATION POTENTIAL	2020

PUBLICATIONS

JOURNAL

No	Article Title	Journal Title	ISSN	Vol.	Issues	Page	Publication year	IF	Type of Publication	Category of Publication	Quartile Ranking	Category Author
1	High-Performance Bimetallic Catalysts For Low-Temperature Carbon Dioxide Reforming Of Methane	Chemical Engineering & Technology	09307516	43	4	661/671	2020	2.418	Publication in web of science	Article/review	Q2	Co-Author
2	SiO ₂ -Rich Sugar Cane Bagasse Ash Catalyst For Transesterification Of Palm Oil	Bioenergy Resources	19391234	13	3	986/997	2020	2.195	Publication in web of science	Article/review	Q3	UTM First Author
3	Computational Studies On Nonlinear Optical Properties Of Metal Complexes Containing Azobenzene	Malaysian Journal of Analytical Sciences		24	5	719-726	2020		Publication in web of science	Article/review		UTM Author
4	Enhancing Students' Writing Performance in Higher Learning through Think-Write-Pair-Share: An Experimental Study	Asian Journal of University Education		16	3	256-266	2020		Publication in web of science	Article/review		UTM First Author

5	Physicochemical Properties Of Enzymatically Synthesised Medium-Chain Triacylglycerols-Based Enhancer Cream	International Journal Of Innovative Technology And Exploring Engineering (IJITEE)	22783075	9	3	2784-2789	2020		Journal Article Non Citation Indexed	Non UTM		UTM First Author
6	Removal Of Ammonium And Phosphate By Mg-Al Layered Double Hydroxide Nanocomposite With Synthesized Zeolite A	8th International Graduate Conference On Engineering, Science And Humanities (IGCESH2020)	2735-055X	0	0	81/84	2020		Proceeding			Co-Author
7	Green Biosynthesized Silver Nanoparticles as Antibacterial Agent	In book: Antibacterial Agents		06	G71, G72	63-76	2020		Penerbit UTM Press			Co-Author
8	Photochemical Synthesis of Nanosheet Tin Di/Sulfide with Sunlight Response on Water Pollutant Degradation	Nanomaterials	20794991	9	2	1/16	2019	3.504	Publication in web of science	Article/review	Q1	Corresponding author
9	Supramolecular design of Benzene-1, 3, 5-Tricarboxamide with Hydrophobic Alkyl side chains toward long-	Journal of Physics	17426596	1282	1	1/8	2019		Publication in scopus	Conference/proceeding paper		UTM First Author

	range liquid crystalline properties											
10	A Comparative Study On The Preparation Methods Of Calcium Based Chromium Oxides Catalyst For Transesterification Of Refined Cooking Oil	32nd International Conference Of Analytical Science	0	0	0	1/8	2019		Conference Paper			Co-Author
11	Facile Preparation Of Two-Dimensional Sheet-Like Tin Disulfide	7th International Conference And Workshop On Basic And Applied Sciences (ICOWOBAS 2019)	0	0	0	888/88	2019		Conference Paper			Corresponding author
12	Supramolecular Interactions In Aromatic Structural Units For Non-Optical And Optical Detection	7th International Conference On Solid State Science And Technology	0	0	0	58/58	2019		Conference Paper			Corresponding author
13	Distinctive Organization Of Aliphatic Benzene-1,3,5-Tricarboxamides For Non-Optical Detection Of Nitrobenzene	ASEAN Emerging Researchers Conference 2019	0	0	0	210/ 210	2019		Conference Paper			Corresponding author

14	Mild Preparation Of Two-Dimensional Layered Tin Disulfide For Visible Photocatalyst	ASIDCON 2018 Proceeding Book	978-967-17072-0-3	0	0	38/42	2019		Proceeding			Corresponding author
15	The Catalytic Performance Of Zn/Zno/Tio2 Plate On Aromatic Mixtures	ASIDCON 2018 Proceeding Book	978-967-17072-0-3	0	0	9/12	2019		Proceedings			UTM First Author
16	Berita Kimia Keluaran Jun 2019	Berita Kimia 2019	263701 4X	6	0	1/5	2019		Article In Mass Media			Co-Author
17	Berita Kimia Keluaran May 2019	Berita Kimia 2019	263701 4X	5	0	1/3	2019		Article In Mass Media			Co-Author
18	Berita Kimia Keluaran Ogos 2019	Berita Kimia 2019	263701 4X	8	0	1/7	2019		Article In Mass Media			Co-Author
19	Berita Kimia Keluaran October 2019	Berita Kimia 2019	263701 4X	10	0	1/5	2019		Article In Mass Media			Co-Author
20	Berita Kimia Keluaran September 2019	Berita Kimia 2019	263701 4X	9	0	1/7	2019		Article In Mass Media			Co-Author
21	Additive-Free Rice Starch-Assisted Synthesis of Spherical Nanostructured Hematite for Degradation of Dye Contaminant	Nanomaterials	207949 91	8	8(9)	1/16	2018	4.03 4	Publication in web of science	Article/review	Q1	Corresponding author

22	Direct-Continuous Preparation of Nanostructured Titania-Silica Using Surfactant-Free Non-Scaffold Rice Starch Template	Nanomaterials	207949 91	8	8(7)	1/15	2018	4.03 4	Publication in web of science	Article/review	Q1	Corresponding author
23	Rice Starch-Templated Synthesis of Nanostructured Silica and Hematite	1st International Online Conference On Nanomaterials	2504-3900	3	3(1)	1/5	2018		proceeding			Individual Author
24	Facile Rice Starch-Templated Synthesis of Nanostructured Metals	Asidcon 2018 Proceeding Book	978-967-17072-0-3	0	1	33/37	2018		proceeding			UTM First Author

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THESIS

1. Juan Matmin, Supramolecular Fluorescents Organogels with Liquid Crystalline Properties from Non-Emissive Benzene-1,3,5-Tricarboxamides for Chemosensor and Color-Tunable Materials, Ph.D. Thesis, Universiti Teknologi Malaysia, Johor, Malaysia (2016).

BOOK CHAPTER

1. Siti Nabihan Ishak, Mustaffa Shamsuddin, Gopinathan Sankar, and Juan Matmin, Green Biosynthesized Silver Nanoparticles as Antibacterial Agent, Antibacterial Agents, Volume 1, Edited by Nik Ahmad Nizam Nik Malek, UTM Publishing, Pages 63-76.

PLENARY/CHAIRPERSON/ORAL POSTER PRESENTER/KEYNOTE ADDRESS / INVITED GUEST SPEAKER

NO	ROLE	TITLE OF PROGRAMME	DATE	LOCATION
1	Invited Speaker	INTERNATIONAL CONFERENCE ON RESEARCH AND PRACTICES IN SCIENCE, TECHNOLOGY AND SOCIAL SCIENCES (I-CREST 2020)	4/10/2020	Selangor
2	Invited Speaker	MASS 7th ICSSST2019	12/11/2019	The Everly, Putrajaya
3	Invited Speaker	NANOTECHNOLOGY: The Need for Regulatory Intervention Based on Scientific Limitation	12/12/2019	UiTM Dengkil
4	Presenter for Oral	ASID Conference (ASIDCON)	27/11/2018	Selangor
5	Presenter for Poster	1st International Online Conference on Nanomaterials	2018	MDPI AG
6	Invited Speaker	1 st In-House Colloquium	22/11/2016	UiTM Dengkil
7	Presenter for Poster	International Conference on Natural Products (ICNP)	24-25/11/2015	Johor
8	Presenter for Oral	28th Regional Conference on Solid State Science and Technology (28th	25-27/11/2014	Cameron Highlands, Pahang

		RCSST)		
9	Presenter for Oral	12th Regional Annual Fundamental Science Symposium (12th RAFSS)	8-11/9/2014	Johor
10	Presenter for Poster	International Conference & Workshop on Basic and Applied Sciences & 11th Regional Annual Fundamental Science Symposium (ICOWOBAS-RAFSS)	3-5/9/2013	Johor
11	Presenter for Poster	Joint International Conference on Nanoscience, Engineering, and Management (Bond21)	19-21/8/2013	Penang
12	Participant for Poster	World Ideation Symposium (Synthomer 2020)	2010	United Kingdom, London
13	Presenter for Poster	Second International Conference and Workshops on Basic and Applied Sciences Regional Annual Fundamental Science Seminar (ICORAFSS)	2-4/6/2009	Johor Bahru

PROFESSIONAL SERVICES

Patent Granted and Filing

NO	NAME OF PATENT	STATUS OF PATENT	
1	Thermoduino	Filed	
2	pH-Raspberry Pi	Filed	