

CURRICULUM VITAE

PERSONAL DETAILS



Ts. ChM. DR. MOHAMAD SHAZWAN SHAH JAMIL

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ACADEMIC QUALIFICATION

PhD. (Chemistry), The University of Manchester, 2018.
 BSc. (Chemistry), The University of Manchester, 2012.

PROFESSIONAL MEMBERSHIP

Institut Kimia Malaysia (IKM), Membership No.: M/5575/9040/21
 American Chemical Society (ACS), Membership No.: 31131020
 Royal Society of Chemistry (RSC), Membership No.: 638724
 Malaysia Board of Technologists (MBOT), Membership No.: PT21100162

EXPERTISE

Organometallic Chemistry, Coordination Chemistry, Catalysis

TEACHING EXPERIENCE

Undergraduate Course
 Organometallic Chemistry
 Coordination Chemistry
 Inorganic Chemistry

POSTGRADUATE SUPERVISION

PhD Student

NO.	NAME	NO. MATRIC	STATUS (GRADUATED/ ON-GOING)	TITLE	ROLES OF SUPERVISION
1.	Amirul Fadzli Aini	PSC203022	Ongoing 2021 – present	Synthesis Characterization and	Main Supervisor

NO.	NAME	NO. MATRIC	STATUS (GRADUATED/ ON-GOING)	TITLE	ROLES OF SUPERVISION
				Antibacterial Study of Novel Triazole Schiff Base Copper Complexes	
2.	Omar Abdullahi Wafudu	PSC163031	Graduated	Synthesis Characterization and Catalytic Activity of Copper Thiosemicarbazone Complexes and Their Oxides in The Reduction of Nitroaromatic Compounds	Co-Supervisor
3.	Falynee Faha Abdul Wahab	PS133027	Ongoing	Synthesis Characterization Antimicrobial Evaluation and Density Functional Theory Calculations of Cobalt(II), Nickel(II) Copper(II) and Zinc(II) Complexes of Tetradentate ONNO Donor Ligand	Co-Supervisor
4.	Mamoona Jillani	PSC183042	Ongoing	Synthesis and computational studies of azobenzene metal complexes for NLO properties	Co-Supervisor

Master Student (By Mixed Mode)

NO.	NAME	NO. MATRIC	STATUS (GRADUATED/ ON-GOING)	TITLE	ROLES OF SUPERVISION
1.	Hassan Wafi Garba	MSC192002	Graduated	Efficient Catalytic Reduction of 4-Nitrophenol using Copper(II) Complexes with N,O-Chelating Schiff Base Ligand	Main supervisor
2.	Muhammad Sabiu Abdullahi	MSC192048	Graduated	Synthesis and Application of Copper-based Compound in the Reduction of 4-nitrophenol	Main supervisor

POSTGRADUATE EXAMINER

(PhD/Master Thesis/Dissertation)

NO	ROLE	STUDENTS NAME	TITLE	YEAR
1.	First Assessment Examiner (Master)	Nur Amirah binti Ibrahim	Microalgae-Mediated Biosynthesis of TiO ₂ Nanoparticles as Photocatalyst for the Photodegradation of Paracetamol.	2022
2.	First Assessment Examiner (PhD)	Norfarahim Binti Mohd Tubillah	Preparation of Functionalized TiO ₂ Thin Film by Magnetron Sputtering Method for the Photodegradation of Plastics	2022
3.	First Assessment Examiner (PhD)	Hamzah Gamal Abdo Allozy	Preparation, Characterization and Application of Poly(1-Butyl-3-Vinylbenzyl Imidazolium Chloride) in Removal of Dyes and Heavy Metals Ions	2021
4.	First Assessment Examiner (Master)	Santush A/L Suras Kumar	Structure-Property Relationship of Modified Titania Nanoparticles in Hollow Copper Oxide Shell for Photodegradation of Antibiotic Residues	2021

RESEARCH PROJECT

As a principal investigator

NO	NAME OF GRANT	ROLE	CATEGORY OF GRANT (UTM/ OTHERS)	TYPE OF GRANT	AMOUNT (RM)	STARTING DATE	ENDING DATE	VOTE NO
1.	Royal Society of Chemistry Research Fund	Principal Investigator	Royal Society of Chemistry	International Grant	RM 21,385.80	01/06/2022	31/05/2023	4B785
2.	Fundamental Research Grant Scheme	Principal Investigator	Ministry of Higher Education	National Grant	RM 78,700	01/11/2020	31/10/2023	5F299
3.	UTM Encouragement Research	Principal Investigator	UTM	Research University Grant	RM 30,000	01/11/2019	31/10/2022	18J37

As a scientific member

NO	NAME OF GRANT	ROLE	CATEGORY OF GRANT (UTM/ OTHERS)	TYPE OF GRANT	AMOUNT (RM)	STARTING DATE	ENDING DATE	VOTE NO
1.	Fundamental Research Grant Scheme	Co-researcher	Ministry of Higher Education	National Grant	RM 139,250	07/09/2021	06/09/2024	5F471
2.	Fundamental Research Grant Scheme	Co-researcher	Ministry of Higher Education	National Grant	RM 93,200	01/01/2019	30/09/2021	5F076

NO	NAME OF GRANT	ROLE	CATEGORY OF GRANT (UTM/ OTHERS)	TYPE OF GRANT	AMOUNT (RM)	STARTING DATE	ENDING DATE	VOTE NO
3.	UTM Encouragement Research	Co-researcher	UTM	Research University Grant	RM 29,200	01/11/2019	30/04/2023	18J18
4.	Tier 1	Co-researcher	UTM	Research University Grant	RM 50,000	01/02/2018	31/01/2021	18H52
5.	Community Grant	Co-researcher	Majlis Bandaraya Iskandar Puteri	Networking Grant	RM 20,000	15/08/2022	15/03/2023	4X765
6.	Community Grant	Co-researcher	Institut Kimia Malaysia	Networking Grant	RM 10,000	01/06/2019	31/10/2019	4X446

PUBLICATION

No	Article Title	Journal Title	Publication Year	IF	Category of Publication	Quartile
1.	Simple NMR predictors of catalytic hydrogenation activity for Rh (cod) Cl (NHC) complexes featuring fluorinated NHC ligands.	Dalton Transaction	2019	4.569	ISI	Q1
2.	Influence of Fluorine Substituents on the Electronic Properties of Selenium-N-Heterocyclic Carbene Compounds	Molecules	2020	4.927	ISI	Q2
3.	Efficient Catalytic Reduction of 4-Nitrophenol Using Copper (II) Complexes with N, O-Chelating Schiff Base Ligands	Molecules	2021	4.927	ISI	Q2
4.	Insight into biomass upgrade: A review on hydrogenation of 5-Hydroxymethylfurfural (HMF) to 2, 5-Dimethylfuran (DMF)	Molecules	2021	4.927	ISI	Q2
5.	Biosynthesis of Gold Nanoparticles Using Carallia brachiata Leaf Extract and Their Catalytic Application in the Reduction of 4-Nitrophenol	Frontiers in Chemistry	2022	5.221	ISI	Q2
6.	Copper oxide derived from copper (I) complex of 2-acetylpyridine-N (4)-(methoxy phenyl) thiosemicarbazone as an efficient catalyst in the reduction of 4-nitrophenol	Malaysian Journal of Fundamental and Applied Sciences	2020	-	ISI	-
7.	Comparison analysis of different classification methods of power quality disturbances	International Journal of Electrical and Computer Engineering	2022	-	Scopus	-
8.	Copper(II) Complexes: Synthesis, Characterization and Catalytic Performance in the Reduction of 4-nitrophenol	eProceedings Chemistry	2020	-	Non-indexed	-
9.	Ligand Exchange and Stability of Copper (II) Complexes	eProceedings Chemistry	2020	-	Non-indexed	-
10.	Investigating the Steric and Electronic Properties of Rhodium Complexes containing Fluorinated NHC Ligands and Their Catalytic Activity in Transfer Hydrogenation of Acetophenone	7th Asian Conference on Coordination Chemistry	2019	-	Non-indexed	-

AWARDS AND RECOGNITION

NO	AWARD	LEVEL (FACULTY /UTM /NATIONAL /INTERNATIONAL)	YEAR
1.	Royal Society of Chemistry Researcher Development Award	International	2022
2.	Anugerah Perkhidmatan Cemerlang	Faculty	2022
3.	Anugerah Perkhidmatan Cemerlang	Faculty	2021
4.	Anugerah Penyelidik Muda Harapan	Faculty	2021
5.	Anugerah Penghargaan Jabatan	Faculty	2021

CONSULTATION

No.	Year	Title	Value
1.	2020	Computational Chemistry Workshop 2020: Transitioning From Wet Lab To Dry Lab	RM 12548.23
2.	2019	Karnival Kimia Johor 2019	RM 2000
3.	2022	Bengkel Latihan Praktikal Amali Asasi Pensyarah SPACE	RM 600
4.	2022	Bengkel Semakan Semula MS 2200-2:2013 Islamic Consumer Goods - Part 2: Usage Of Animal Bone, Skin, And Hair General Guidelines	RM 300
5.	2019	Lab Modules For Phillipines Senior High School General Chemistry 1 And 2	RM 1300

COMMUNITY SOCIAL RESPONSIBILITY

NO	ROLE	NAME OF PROJECT	YEAR	LEVEL
1.	Member	Tanaman Sayuran Secara Pintar Menggunakan Kaedah Hidroponik dan Teknologi IOT (Internet of Things)	2022	State
2.	Member	IKM Interactive Chemistry Booth For STEM Day 2022	2022	State
3.	Member	Bantuan Makanan Berbuka (Iftar) B40 Kawasan Pulau	2021	State