



## PERSONAL DETAILS

Name : ABDO MOHAMMED ALI AL-FAKIH  
 Permanent Address : Fakulti Sains, Universiti Teknologi Malaysia, 81310 Johor Bahru, Johor, Malaysia  
 Correspondent Address : Fakulti Sains, Universiti Teknologi Malaysia, 81310 Johor Bahru, Johor, Malaysia  
 Tel : 0060173378459  
 E-mail : abdo-pd@utm.my  
 Website : [https://www.researchgate.net/profile/Abdo\\_Al-Fakih](https://www.researchgate.net/profile/Abdo_Al-Fakih)  
 Expertise : Metals corrosion inhibition; battery Electrolyte; electrochemistry; quantum chemical calculations and Chemometrics  
 H-Index (WOS) : 8  
 H-Index (SCOPUS) : 9  
 H-Index (G. Scholar) : 12  
 H-Index (Researchgate) : 10

## ACADEMIC QUALIFICATIONS

NO	LEVEL OF EDUCATION	COURSE	UNIVERSITY	STARTING DATE	ENDING DATE
1.	Ph.D	Chemistry	Universiti Teknologi Malaysia	2012	2017
2.	Master	Chemistry	Universiti Teknologi Malaysia	2011	2012
3.	Bachelor	Chemistry	Sana'a University, Yemen	1998	2002

## AWARD AND HONORS RECEIVED

Summary	
International Awards / Honors	1
UTM Awards / Honors	3

NO	AWARD	LEVEL (FACULTY /UTM /NATIONAL /INTERNATIONAL)	YEAR
1.	Merit PhD thesis award	UTM	2017
2.	Certificate of excellence achievement in PhD thesis	UTM	2017
3.	Best student award upon Master graduation	UTM	2012
4.	Islamic Development Bank (IsDB) scholarship, Jeddah	International	2010

## WORKING EXPERIENCE

NO	POSITION	STARTING DATE	ENDING DATE	DEPARTMENT/ORGANISATION
1.	Senior lecturer	22nd August 2021	present	Department of Chemistry, Faculty of Science, Universiti Teknologi Malaysia
2.	Postdoctoral research fellow	2nd Jul 2017	1st Jul 2020	Department of Chemistry, Faculty of Science, Universiti Teknologi Malaysia
3.	Teaching assistant	1st January 2005	1st October 2010	Sana'a University, Sana'a, Yemen
4.	Head of the raw materials section, Quality control (QC) department	1st May 2004	31 December 2005	Shaphaco Pharmaceutical Industry, Sana'a, Yemen
5.	Senior analyst (Chemist), Quality control (QC) department	7 July 2003	30 April 2004	Shaphaco Pharmaceutical Industry, Sana'a, Yemen

## ADMINISTRATIVE EXPERIENCE

NO	POSITION	STARTING DATE	ENDING DATE	DEPARTMENT/ FACULTY/ DIVISION
1.	Head of the raw materials section, Quality control (QC) department	1 May 2004	31 December 2005	Shaphaco Pharmaceutical Industry, Sana'a, Yemen

## RESEARCH ACTIVITIES

Summary	
Principal Investigator - UTM Grants	1 projects (RM60,000)
Member - National Grants	1 projects (RM20,000)

**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.	Ionic liquids as performance-enhancing additives in the lithium-ion battery electrolyte	Researcher and supervisor	UTM	UTMER	60,000	1/11/2022	31/10/2024	--

**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.	Paracetamol-based deep eutectic solvents and their application in enzymatic biotransformation.	Co-researcher	UTM	UTMER	20,000	01/10/2021	30/09/2023	--

**TEACHING ACTIVITIES**

Summary	
Total Credit Hours	33

**UNDERGRADUATES**

NO	SEMESTER	SEM	SUBJECT CODE	SUBJECT	CREDIT HOUR	NO OF STUDENT
1.	2021/2022	1	SSCC2453	Chemical kinetics and electrochemistry	3	61
2.	2021/2022	1	SSCC4483	Corrosion chemistry	3	52
3.	2021/2022	1	SSCC 2841	Physical Chemistry Practical II	1	20
4.	2021/2022	1	SSCC 2841	Physical Chemistry Practical II	1	19
5.	2021/2022	2	SSCC1413	Chemical thermodynamics	3	51
6.	2021/2022	2	SSCC1413	Chemical thermodynamics	3	40
7.	2021/2022	2	SSCC1413	Chemical thermodynamics	3	46
8.	2021/2022	2	SSCC3423	Industrial chemical process	3	55
9.	2021/2022	2	SSCC1841	Physical chemistry practice 1	1	24
10.	2021/2022	2	SSCC1841	Physical chemistry practice 1	1	22
11.	2022/2023	1	SSCC2453	Chemical kinetics and electrochemistry	3	51

NO	SEMESTER	SEM	SUBJECT CODE	SUBJECT	CREDIT HOUR	NO OF STUDENT
12.	2022/2023	1	SSCC2453	Chemical kinetics and electrochemistry	3	37
13.	2022/2023	1	SSCC4443	Chemical reactions process	3	45
14.	2022/2023	1	SSCC 2841	Physical Chemistry Practical II	1	28
15.	2022/2023	1	SSCC 2841	Physical Chemistry Practical II	1	29
<b>Total credits</b>					<b>33</b>	

## SUPERVISION

Summary	
Main Supervisor - Undergraduate (Graduated)	4
Main Supervisor - Undergraduate (On-Going)	4

### Undergraduate

NO.	NAME	NO. MATRIC	STATUS (GRADUATED/ ON-GOING)	TITLE	ROLES OF SUPERVISION
1.	Nur Syazwani Abd Razak	A19SC0291	On-going 2022 – present	Myristica fragrans and sunflower seeds hull extracts as eco-friendly corrosion inhibitors of mild steel in 1 M hydrochloric acid	Main supervisor
2.	Esther Sia Xi Yue	A19SC0068	On-going 2022 – present	Olive leaf and solid tea waste as green corrosion inhibitors for mild steel in 1 M hydrochloric acid	Main supervisor
3.	Maryam Al Mukarramah Asmad	A19SC0163	On-going 2022 – present	Corrosion inhibition of mild steel in 1 M hydrochloric acid using extracts of lawsonia inermis and cocos nucifera	Main supervisor
4.	Muhammad Asyraf Zulkarnai	A19SC0185	On-going 2022 – present	Corrosion inhibition of mild steel in 1 M hydrochloric acid using onion and potato peels	Main supervisor
5.	Ros Fateen Natasya binti Rosli	A18SC0292	2022 Graduated	Aloe vera and henna leaves extract as the corrosion inhibitors for mild steel in 1 M HCl	Main supervisor
6.	Nurain Najihah Mohd Nizam	A18SC0239	2022 Graduated	Green approach of corrosion inhibition of mild steel using black pepper and mangosteen	Main supervisor
7.	Nur Izzaty Mohd Fuad	A18SC0221	2022 Graduated	Curcuma domestica and curcuma xanthorrhiza as	Main supervisor

NO.	NAME	NO. MATRIC	STATUS (GRADUATED/ ON-GOING)	TITLE	ROLES OF SUPERVISION
				green inhibitors for mild steel corrosion in 1 M HCl	
8.	Wyn Owen Justin	A18SC0349	2022 Graduated	Orange and lemon as green inhibitors of mild steel corrosion in acidic medium	Main supervisor

## PUBLICATIONS

Summary	
ISI Article / Journal	19
Scopus Article / Journal	3

No	Article Title	Journal Title	ISSN	Vol.	Issues	Page	Publication Year	IF	Type of Publication	Category of Publication	Quartile
1.	Optimization of As(V) Removal by Dried Bacterial Biomass: Nonlinear and Linear Regression Analysis for Isotherm and Kinetic Modelling	Metals	2075-4701	12	10	1-18	2022	2.695	Journal	ISI	Q2
1.	An improved opposition-based crow search algorithm for biodegradable material classification	SAR and QSAR in Environmental Research	1062-936X	33	5	403-415	2022	3.681	Journal	ISI	Q2
2.	Part II: Impact of Ionic Liquids as Anticorrosives and Additives on Ni-Co Alloy Electrodeposition: Experimental and DFT study	Arabian Journal of Chemistry	1878-5352	14	1	102909	2021	6.212	Journal	ISI	Q1
3.	Effect of substituents on the inhibitive properties of newly synthesized 5-benzoyl-4-methyl-1,3,4,5-	Materials and Corrosion	0947-5117	71	12	2070-2082	2020	1.832	Journal	ISI	Q2

No	Article Title	Journal Title	ISSN	Vol.	Issues	Page	Publication Year	IF	Type of Publication	Category of Publication	Quartile
	tetrahydro-2H-1,5-benzodiazepine-2-one derivatives against mild steel corrosion in acidic medium										
4.	A QSAR model for predicting antidiabetic activity of dipeptidyl peptidase-IV inhibitors by enhanced binary gravitational search algorithm	SAR and QSAR in Environmental Research	1062-936X	30	6	403-416	2019	3.681	Journal	ISI	Q2
5.	A Novel Viewpoint of an Imidazole Derivative Ionic Liquid as an Additive for Cobalt and Nickel Electrodeposition	RSC Advances	2046-2069	10	53	32113 - 32126	2020	4.036	Journal	ISI	Q2
6.	QSAR classification model for diverse series of antifungal agents based on improved binary differential search algorithm	SAR and QSAR in Environmental Research	1062-936X	30	2	131-143	2019	3.681	Journal	ISI	Q2
7.	Experimental and theoretical studies of the inhibition performance of two furan derivatives on mild steel corrosion in acidic medium	Materials and Corrosion	0947-5117	70	1	135-148	2019	1.832	Journal	ISI	Q2
8.	Quantitative structure-activity relationship model for classifying the diverse series of antifungal agents using	SAR and QSAR in Environmental Research	1062-936X	31	8	571-583	2020	3.681	Journal	ISI	Q2

No	Article Title	Journal Title	ISSN	Vol.	Issues	Page	Publication Year	IF	Type of Publication	Category of Publication	Quartile
	ratio weighted penalized logistic regression										
9.	A penalized quantitative structure–property relationship study on melting point of energetic carbocyclic nitroaromatic compounds using adaptive bridge penalty	SAR and QSAR in Environmental Research	1062-936X	29	5	339-353	2018	3.681	Journal	ISI	Q2
10.	A sparse QSRR model for predicting retention indices of essential oils based on robust screening approach	SAR and QSAR in Environmental Research	1062-936X	28	8	691-703	2017	3.681	Journal	ISI	Q2
11.	Quantitative structure–activity relationship model for prediction study of corrosion inhibition efficiency using two-stage sparse multiple linear regression	Journal of Chemometrics	0886-9383	30	7	361-368	2016	2.500	Journal	ISI	Q2
12.	High Dimensional QSAR Study of Mild Steel Corrosion Inhibition in acidic medium by Furan Derivatives	International Journal of Electrochemical Science	1452-3981	2015	10	3568-3583	2015	1.541	Journal	ISI	Q3
13.	High-dimensional QSAR prediction of anticancer potency of imidazo[4,5-b]pyridine derivatives using adjusted adaptive LASSO	Journal of Chemometrics	0886-9383	29	10	547-556	2015	2.500	Journal	ISI	Q2

No	Article Title	Journal Title	ISSN	Vol.	Issues	Page	Publication Year	IF	Type of Publication	Category of Publication	Quartile
14.	High-dimensional quantitative structure–activity relationship modeling of influenza neuraminidase a/PR/8/34 (H1N1) inhibitors based on a two-stage adaptive penalized rank regression	Journal of Chemometrics	0886-9383	30	2	50-57	2016	2.500	Journal	ISI	Q2
15.	High-dimensional QSAR classification model for anti-hepatitis C virus activity of thiourea derivatives based on the sparse logistic regression model with a bridge penalty	Journal of Chemometrics	0886-9383	31	6	E2889	2017	2.500	Journal	ISI	Q2
16.	High-dimensional QSAR modelling using penalized linear regression model with L1/2-norm	SAR and QSAR in Environmental Research	1062-936X	27	9	703-719	2016	3.681	Journal	ISI	Q2
17.	Corrosion Inhibition Efficiency of Thiophene Derivatives on Mild Steel: A QSAR Model	International Journal of Electrochemical Science	1452-3981	2014	9	1678-1689	2014	1.541	Journal	ISI	Q3
18.	Experimental and quantum chemical calculations on corrosion inhibition of mild steel by two furan derivatives	Jurnal Teknologi	0127-9696	78	6-12	121-125	2016	--	Journal	ISI	Q3
19.	Turmeric and ginger as green inhibitors of	Journal of Materials and Environmental Science	2028-2508	6	5	1480-1487	2015	--	Journal	Scopus	--

No	Article Title	Journal Title	ISSN	Vol.	Issues	Page	Publication Year	IF	Type of Publication	Category of Publication	Quartile
	mild steel corrosion in acidic medium										
20.	Corrosion inhibition of Q235A steel in acid medium using isatin derivatives: A QSAR study	Malaysian Journal of Analytical Sciences	1394-2506	20	3	484-490	2016	--	Journal	Scopus	--
21.	Evaluation of Alpinia galanga and its active principle, 1'-aceto-chavicol acetate as eco-friendly corrosion inhibitors on mild steel in acidic medium	Journal of Materials and Environmental Science	2028-2508	8	6	2040-2049	2017	--	Journal	Scopus	--