



ASSOCIATE PROF DR KARIMAH KASSIM

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Faculty :	Faculty of Applied Sciences
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Academic Qualification

- | | |
|--------------------------------|---|
| • PhD (Coordination Chemistry) | Universiti Teknologi MARA (UiTM Shah Alam) (2007) |
| • M.Sc (Inorganic Chemistry) | Universiti Kebangsaan Malaysia (2002) |
| • B.Sc (Chemistry) | Universiti Kebangsaan Malaysia (2000) |

- Brief Career History** :
- Senior Lecturer, FSG ,UiTM Shah Alam.
 - Researcher, Center for Nanomaterial Research, Institute of Science (IOS), UiTM.

Field of Specialization

- Coordination Chemistry.
- Advanced Materials Chemistry.
- Corrosion Studies
- Catalytic Activities
- Bioinorganic Applications

Recognition

1. Excellent Service Award UiTM (2009)
2. Bronze Awards in International Innovation, Design and Articulation 2013 (i-IDEA 2013)
3. Bronze Award in Invention, Innovation and Design Exposition (IINDEX 2014).
4. Silver Award in Invention, Innovation and Design Exposition (IINDEX 2017).

Profesional Affiliation/ Association

1. Member of ANALIS (2014-present)
2. Member of IKM (2016-present)
3. Member of American Chemical Society (ACS) (2016-present)

POSTGRADUATE SUPERVISION

Ph.D (RESEARCH) SUPERVISION COMPLETED (Includes Co-supervision)

No.	Candidate	Title of Thesis	Year Enrolled	Year End
1.	Amalina Mohd Tajuddin	Synthesis and Characterization of Palladium(II) and Nickel(II) Complexes of Schiff Bases and the Potential of the Pd(II) complexes as Catalyst for C-C Bond Formation	2010	2014
2.	Nur Zakiah Nur Hashim	Studies on the Adsorption and Corrosion Inhibition of Substituted Benzydene Schiff Bases on Mild Steel in 1M HCl	2010	2015
3.	Nur Hanna Batar	Nanostructured Mg and Al Oxide by a Cumbustion Synthesis Method and Fabrication of the Thin Films by Pulsed Laser Deposition	2010	2015

MASTER (RESEARCH) SUPERVISION COMPLETED (Includes Co-supervision)

No.	Candidate	Title of Thesis	Year Enrolled	Year End
1.	Ahmad Shalabi b. Mohd Sauri	Investigation of Substituent Effects on the Inhibitive Properties of Schiff Base Compounds	2008	2010
2.	Fatimatuzaahraa Mohd Fadzel	Synthesis, Charecterization and Biological Studies of Schiff base Compounds Derives from 2,4-dihydroxybenzylidene.	2009	2011
3.	Nur Illane Abdul Halim	Syntheisi, Characterization and Antibacterial Screening of New Benzoylthiourea Derivatives and Their Cu(II) and Ni(II) Complexes	2010	2012
4.	Amirah Ahmad	Heterogeneous Catalyst From Thiourea Complex Encapsulated into Functionalized MCM-41	2010	2012
5.	Ahmad Fauzi Abu Bakar	Synthesis, Characterization and Antibacterial Applications of Schiff base ligands with Co(II), Ni(II) complexes derives from 1,8-naptalynediamine	2009	2011
6.	Siti Noriah Mohd Shotor	Synthesis, Characterization and Bioassay Studies of Hydroxamic ligands with their Co(II), Ni(II), Zn(II) complexes.	2008	2010
7.	Muneera Fatin Manan	Synthesis, Electrical and Optical Properties of 5-Indoline-2-3, Dione Derivatives with Co(II), Ni(II), Cu(II) Metal Complexes	2011	2014
8.	Siti Nurhazlin Jaluddin	Synthesis, Characterization and Catalytic Applications od Nitrogen Based Metal Organic Frameworks (MOFS)	2013	2016
9.	Nur Najihah (USIM)	Synthesis and Corrosion Inhibition Studies of Benzoylthiourea Derivatives on Mild Steel in 1M HCl	2014	2016

10.	Siti Khatijah Mustafa Kamal	Synthesis, Characterization and Corrosion Studies of Mono and Bis Thiourea derivatives	2013	2017
11.	Faridz Osman	Synthesis, Characterization and Conductivity Studies of Conjugated Cyclic Schiff Bases Compounds Derives From Substituted Salicylaldehyde and Phenylenediamine Derivatives.	2011	2017

On-Going PhD SUPERVISION (Includes Co-supervision)

No.	Candidate	Title of Thesis	Year Enrolled	Year End
1.	Zailelah Zainoldin	Synthesis and Characterization of Schiff Base Polymer from Cystamine as Corrosion Inhibitor	2016	In Progress

ON-GOING POSTGRADUATE (RESEARCH) SUPERVISION (Includes Co-supervision)

No.	Candidate	Title of Thesis	Year Enrolled	Year End
1.	Mohd Azwan Hamali	Synthesis and Theoretical Study of Newly Designed Polynuclear Heterocyclic Azomethine Complexes derived from Benzyldiamine as Potential Bioinorganic Agents.	2016	In Progress
2.	Nur Atiqah Nordin	Synthesis and Corrosion Inhibition Studies in Acidic Media of Primary and Secondary Thiourea Compounds.	2016	In Progress
3.	Mohd Ashraf Kasad	Synthesis and Theoretical Studies of Acyclic Azomethine Derived from Analine as Corrosion Inhibitor.	2017	In Progress
4.	Fakhzrul Haqimee	Synthesis and Inhibitions Effects Study of New Thiosemicarbazone Derivatives on the Corrosion of Mild Steel in Acidic Medium.	2017	In Progress

RESEARCH FUNDINGS (State whether Principal/Co-Researcher)

NATIONAL LEVEL ACTIVE RESEARCH FUNDING (MOSTI/FRGS & Others)

	Research Project	Source	Total Funds	Begin Year	End Year
1.	Conductivity Studies of Novel Acyclic Schiff Bases and Their Metal Complexes	FRGS, MOHE	RM 51,200/Principal	2010	2012
2.	Preparation of Curved Structure of MgO via Sol-gel Method Assisted Cetyltrimmonium Bromide: Thermal, Phase and Morphological Studies	FRGS, MOHE	RM 54,500/ Co-researcher	2010	2012
3.	Synthesis, Characterization and Conductivity Studies of Schiff Base Ligands Derived from Isatin and Their Metal Complexes	RIF, UITM	RM 32,000/Principle	2012	2014

4.	Role of Different substituents Group in Chiral Thiourea Complexes Towards Antitumor Activities	RIF, UiTM	RM 32,000/ CO-researcher	2012	2014
5.	Electrochemical and Mechanism investigation of conjugated Thiosemicarbazide As Corrosion Inhibitor	FRGS, MOHE	RM 68,000/Principal	2013	2015
6.	Synthesis, Characterized and Catalytic Testing of Aminopropylated Porous Silica Material From Power Plant Bottom ASH	FRGS, MOHE	RM 90,500/ CO-researcher I	2013	2015
7.	Organocatalytic Metal Organic Frameworks: Synthesis, Thermal Stability and Catalytic Application	FRGS, MOHE	RM 70,500/ CO-researcher I	2013	2015
8.	SYNTHESIS AND CORROSION INHIBITION STUDIES IN ACIDIC MEDIA OF PRIMARY AND SECONDARY THIOUREA DERIVATIVES	RAGS,	RM53,000 Co-Researcher	2015	2017
9.	Synthesis and Theoretical Study of Newly Designed Polynuclear Heterocyclic Azomethine Complexes derived from Benzylidiamine as Potential Bioinorganic Agents	FRGS	RM90,000.00 Principle	2016	2018
10.	Synthesis and Inhibitions Effects Study of New Thiosemicarbazone Derivatives on the Corrosion of Mild Steel in Acidic Medium.	FRGS	RM74,000.00 Co-Researcher	2017	2019

PUBLICATIONS

1. Karimah,K., Muhamad,A.H.,(2018),Green Synthesis and Antimicrobial Studies of Ni(II) and Zn(II) Dinuclear Schiff Base Complexes, International Journal of Engineering & Technology, 7,3.11,237-240.
2. Ahmad, A., Razali, M.H., Kassim, K., Amin, K.A.M, Mamat,M.,(2018) Physiochemical properties of TiO₂ nanoparticle loaded APTES-functionalized MWCNTs composites and their photocatalytic activity with kinetic study, Arabian Journal of Chemistry, <https://doi.org/10.1016/j.arabjc.2018.07.009>
3. Ahmad, A., Razali, M.H., Kassim, K., Amin, K.A.M.,(2017) Synthesis of Multiwalled carbon nanotubes supported on M/MCM-41 (M=Ni, Co and Fe) mesoporous catalyst by chemical vapour deposition method, Porous Material.
4. Karimah, K. Azwan. M.H.,(2017), Microwave Assisted Synthesis and Characterization of Trinuclear Zinc(II) Schiff Base Complexes Derived from m-phenylenediamine and Salicylaldehyde, , International Journal of Engineering & Technology

5. Karimah K, Norsakina Z., Nurul A. N., (2017), Synthesis and Corrosion Inhibition Studies of N-((4 and 3-chlorophenyl) carbamothioyl) Benzamide in 1M H₂SO₄, *Pertanika Journal of Science & Technology* (Vol 3).
6. Karimah,K., Nor Zakiah,N.H.,Bohari,.M.Y., Hamizah,Z.,(E)-1-(4-Hydroxybenzylidene)-4-methylthiosemicarbazide, ,(2016), ISSN: 2414-3146, IUCrData.
7. Karimah,K., Noor Khadijah M.K., Adibatul, H F., Synthesis, Characterization And Electrochemical Studies Of 4-Methoxybenzoylthiourea Derivatives, *The Malaysian Journal of Analytical Science*.Vol 20,1311-1317.
8. Nor Zakiah,N.H., Karimah,K., Hamizah M.Z., (2016), XPS Characterization on Benzylidene Schiff Base Ligand, *ARNP Journal of Engineering and Applied Sciences*, Vol 11, No 16 ISSN 1819-6608
9. Karimah,K.,Azwan,.M.H., Microwave Assisted Synthesis and Characterization of Trinuclear Zinc (II) Schiff Base Complexes Derived from *m*-phenyldiamine and Salicylaldehyde, *CSSR Proceeding*, 2016.
10. Amalina,M.T., Hadariah,B., Hamizah, M.Z., Karimah ,K., Suchada, C., Crystal Structure of Bis(2-1-{E}-4-flourobenzylimino]ethyl}phenolato-K₂N₂O)}palladium(II), (2015), *Acta Cryst E*71,350-353.
11. Noor K., M., K., Adibatul H., F. and Karimah K., Synthesis, Characterization and Corrosion Inhibition Studies of 2-Methylbenzoylthiourea Derivatives,(2015) *Proceedings of the International Conference on Global Sustainability and Chemical Engineering*.
12. Noor Khatijah,M.K., Adibatul Husna, F., Karimah, K., Synthesis, Characterization And Corrosion Inhibition Studies of *o,m,p*-Decanoyl Thiourea Derivatives on Mild Steel in 0.1M H₂SO₄ Solutions,(2014),*The Malaysian Journal of Analytical Science*, Vol 18, 21-27.
13. Nor Zakiah,N.H., Karimah,K., (2014) The Effect of Temperature on Mild Steel Corrosion in 1M HCl by Schiff Bases, *The Malaysian Journal of Analytical Science*, Vol 18, 28-36.
14. K.Kassim, N.Hashim, Fadzil A.H, Yusof S.M, (2012), *2-(4-chlorophenyl)-1-phenyl-1H-benzimidazole*, *Acta Cryst.*, Section E, E68, o799.
15. Amalina, M.T., Hadariah, B., Karimah.K, Wan Nazihah, W.I.,Bohari,M.Y., (2012), *Synthesis and Characterization of Pd(II) Schiff Base Complexes and Their Catalytic Activities for Suzuki Coupling Reaction*, *Malaysian Journal of Analytical Science*, Vol 16, 79-87.
16. Amirah. A., Hamizah., M.R., Karimah.K., (2012), *Copper Supported on funtionalised MCM 41 Containing Thiourea Ligand as Catalyst in Oxidation of Cyclohexane with Hydrogen Peroxide*, *Malaysian Journal of Analytical Science*, Vol 16, 62-70.
17. Nur Illane,M.H., Karimah,K., Adibatul, H.F., Bohari, M.Y., (2012), *Synthesis, Characterization and Antibacterial Studies of Cu(II) Complexes thiourea*, *Malaysian Journal of Analytical Science*, Vol 16, 56-61.
18. Amirah.A., Hamizah, M.R., Karimah.K, (2012), *Physicochemical Properties of CuO₂(acac)₂ Supported on Functionalized MCM41 Containing Thiourea Ligand*, *International Journal Chemical Engineering Application (IJCEA)*. (in press)
19. Nur Illane., M.H., Karimah.K., Adibatul,H.F., Bohari,M.Y., (2012), Synthesis, Characterization and Antibacterial Studies of 1,2-bis(N'-2,3 and 4-methoxybenzoylthioureido)-4-nitrobenzene, ISSN : 2212-6708, 2nd International Conference on Chemistry and Chemical Process (ICCCP 2012),APCBEE Procedia
20. Zailalah Zainoldin, Mohamad Kamal Harun, Hadariah Bahron and Karimah Kassim , *Passive Thin Film Coating Through Electrodeposition of Salicylideneaniline* , ISSN : 2212-6708, 2nd

International Conference on Chemistry and Chemical Process (ICCCP 2012), APCBEE Procedia.

21. Nor Zakiah.N.H., Karimah.,K., Yusairie M., (2012), (E)-N'-(4-Chlorobenzylidene)-N⁴-Phenylbenzene-1,4-diamine asMild Steel Corrosion Inhibitor in 1M HCl, ISSN : 2212-6708, 2nd International Conference on Chemistry and Chemical Process (ICCCP 2012),APCBEE Procedia.
22. Muneera F.M., Karimah K., Mohd Abdul F.A.M., (2012), Synthesis, Characterization and Conductivity Study of Schiff Base Ligands Derived From Isatin, Advanced Materials Research Vols. 554-556, pp 517-521.
23. Nor Zakiah N.H., Karimah K., Yusairie M., (2012), Corrosion Inhibition of Mild Steel by N-phenyl-1,4-phenylenediamine and its Schiff Base Derivatives in 1M HCl, Advanced Materials Research Vols. 554-556 (2012) pp 408-413.
24. Aliyin A.G., Hadariah B., Mohamad K.H., Karimah K.,(2012), Corrosion Inhibition Study of Heterocyclic Schiff Base Derived From Isatin, Advanced Materials Research Vols. 554-556 (2012) pp 425-429.
25. Zailalah Z., Mohamad K.H., Hadariah B., Karimah K., (2012), Electrodeposition of Salicylideneaniline and its Corrosion Behavior, Advanced Materials Research Vols. 554-556 (2012) pp 385-389.
26. Ahmad F.A.B., Hadariah B., Karimah K., (2012), Synthesis, Characterization and Neurotoxicity Screening of Schiff Base Ligands and Their Complexes, Advanced Materials Research Vols. 554-556 (2012) pp 938-943.
27. Muneera, F.M., Karimah,K., Mohd. A.F.A.M., (2012), Synthesis, Characterization and Conductivity Studies of Sciff Base Ligand Derived From Isatin and o-phenylenediamine with its Cobalt(II) Metal Complex and Lithium-Sciff Base Compound. The Malaysian Journal of Analytical Science, Vol 16(3).
28. Hadariah Bahron, Fatimatu Zahraa Mohd Fadzil, **Karimah Kassim**, Manukar Hemamalini, Hoong-Kun Fun, (2011) 2-[(E)-(2,4-dihydroxybenzylidene)azaniumyl]-3-phenyl-propanoate. Acta Crystallographica, Section E, E67, o1331-1332.
29. Nur Illane Mohamad Halim, **Karimah Kassim**, Adibatul Husna Fadzil and Bohari M. Yamin, *Synthesis, characterization and antibacterial studies of benzoylthiourea derivatives*. International Proceeding of Chemical, Biological & Enviromental Engineering , ISSN:2010-4618, 2nd International Conference on Chemistry and Chemical Engineering (ICCCE 2011).
30. Amirah Ahmad,Hamizah Md Rasid, Adibatul Husna Fadzil, Shadatul Hanum Rashid and **Karimah Kassim**, *Synthesis and characterization of CuO₂(acac)₂ supported on functionalized MCM41 containing thiourea ligand*, International Proceeding of Chemical, Biological & Enviromental Engineering , ISSN:2010-4618, 2nd International Conference on Chemistry and Chemical Engineering (ICCCE 2011).
31. Hadariah Bahron, Siti Najihah Abu Bakar, Karimah Kassim, Chin Sing Yeap, Hoong-Kun Fun (2010) (E)-2-[1-(3-Amino-4-chlorophenylimino)ethyl]-4-bromophenol, Acta Crystallographica, Section E, E66, o883.
32. Nor Zakiah Nor Hashim, Karimah Kassim and Bohari M.Yamin, (2010) N-[(E)-4 Chlorobenzylidene]-N'-phenylbenzene-1,4-diamanine, Acta Crystallographica, Section E, E66, o2039.
33. K. Kassim, H. Bahron and N.H. Ismail (2007), *Synthesis and Characterization of Cyclic and Acyclic Schiff Bases*, Science Letters, Volume 4, Issue 1, 115-125, ISSN 1675-7785.
34. A.S.M. Sauri, K. Kassim, H. Bahron, M.Z.A. Yahya, M.K. Harun (2009) *An Investigation on effects of substituents in N,N'-dibenzylidene ethane-1,2-diamine towards corrosion inhibition on steel in 1M HCl*, Materials Research Innovations, Volume 13, No. 3, 305-308, W.S. Maney & Son Ltd. (DOI 10.1179/143307509X440604)

35. Yamin, B. M., Bakar, S. N. A., Kassim, K. and Bahron, H. (2009) 6,6'-Dimethoxy-2,2'-[(E,E')-(4-chloro-m-phenylene)bis(nitrilomethylidyne)]diphenol, Acta Crystallographica, Section E, E65, o2573 [doi:10.1107/S1600536809037386]
36. Hadariah Bahron, Karimah Kassim, Sharifah Rohaiza Syed Omar, Shadatul Hanum Rashid, Hoong-Kun Fun, Suchada Chantrapromma (2007) (E,E)-N,N'-Bis(4-chlorophenyl)-ethylenediamine, Acta Crystallographica, Section E, E63, o558-o560. (doi:10.1107/s1600536807000025)
37. Karimah Kassim, Hadariah Bahrom and Bohari M. Yamin (2006) (E-E)-N,N'-Bis(4-tolylmethylidene)-ethylenediamine, Acta Crystallographica, Section E, E62, o3521-o3522 (doi:10.1107/s160053680602798X).

Other Services of Expertise

1. Reviewer for Malaysian Journal of Analytical Sciences (MJAS).
2. Reviewer for Sains Malaysiana (UKM).
3. Reviewer for Hindawi Journal of Chemistry.
4. Reviewer for Journal of Molecular Structure
5. Reviewer for Journal of Palm Oil Research.
6. External Examiner for M.Sc Thesis from Universiti Malaysia Terengganu (UMT)-Siti Aminah bt Jusoh(2016).
7. External Examiner for M.Sc Thesis from Universiti Kebangsaan Malaysia (UKM)-Noorhanani Mohd Ali(2016).
8. External Examiner for M.Sc Thesis from Universiti Kebangsaan Malaysia (UKM)-Latifah Md Yusof(2016).
9. Internal Examiner for M.Sc Thesis from Universiti Teknologi MARA (UiTM) Arau-Nurul Asma Hamedan(2017).
10. Internal Examiner for M.Sc Thesis from Universiti Teknologi MARA (UiTM) Shah Alam-Mohd Siddiq Abu Bakar (2018).
11. Judge for SciTech Education Festival 2017 & SKAM 2018.
12. Internal Evaluator of Research Grant in the area of fundamental and applied science, UiTM, 2011-present.