

**DR SHADATUL HANOM BINTI RASHID**

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Faculty of Applied Sciences
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ACADEMIC QUALIFICATIONS

2020	PhD Materials	University of Manchester, UK
2008	MSc Corrosion Control Engineering	University of Manchester, UK
2005	BSc Chemistry	Universiti Teknologi MARA

CURRENT TEACHING RESPONSIBILITIES

CMT 550	Electrochemistry and Corrosion Technology
CMT 610	Corrosion and Materials Laboratory
CMT 680	Community Engagement

RESEARCH INTERESTS

Corrosion Protection
Hybrid Sol-gel Coatings
Material Chemistry
Aluminium alloys

CURRENT ADMINISTRATIVE RESPONSIBILITIES

2020 – 2022	Resource Person for CMT 550
2020 – 2022	Internal Auditor FSG, UiTM Shah Alam

PREVIOUS EMPLOYMENT

2008 - present	Lecturer Faculty of Applied Sciences, UiTM Shah Alam
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SUPERVISION

UNDERGRADUATE SUPERVISION (INCLUDES CO-SUPERVISION)

No.	Student	Year end	Programme
1.	Indra Totoh	2009	AS225
2.	Abdul Hakim Abd Rauf	2009	AS233
3.	Mohd Emi Syahzuwaan Che Amran	2009	AS233
4.	Zackry Zulkarnain Zahadi	2010	AS225
5.	Noor Nizaini Man	2010	AS225
6.	Mohd Emir Hafidz Hafidzuddin	2010	AS225
7.	Siti Suhaili Sulaiman	2010	AS225
8.	Asrul Alias	2011	AS225
9.	Darwisah Mohamed	2012	AS225
10.	Siti Rafiqah Mohd Ihsan	2012	AS225
11.	Anis Nur Izzati Mohamad Baharudin	2012	AS225
12.	Wan Nur Syazwani Wan Razi	2012	AS225
13.	Siti Khadijah Ishak	2013	AS225
14.	Nurul Atiqah Zainal	2013	AS225
15.	Amir Fayyadh Mohd Radzi	2013	AS225
16.	Nur Najihah Wahid	2014	AS225
17.	Nur Farhana Harun	2014	AS225
18.	Nur Fadzleena Mohd Najib	2014	AS225
19.	Fatin Liyana Azhar	2014	AS225
20.	Khairi Hanif Tabri	2016	AS230
21.	Mohd Haziq Norashikin	2016	AS230
22.	Nur Dinie Zahari	2020	AS245
23.	Nur Shafiqah Rashid	2020	AS245

RESEARCH FUNDINGS

No.	Research Project	Source of Funding	Total Amount	Year Begin	Year End
1.	Synthesis, Characterization and Inhibition Effect of Thiourea and its Derivatives on Corrosion of Mild Steel in Acidic Media	Excellent Fund, UiTM	8,300.00	2010	2011
2.	Heterogeneous Catalyst from Thiourea Complexes Encapsulated onto Functionalized Mesoporous Materials	FRGS, MOHE	49,600.00	2010	2013
3.	Investigation of Novel Azomethine Series as Corrosion Inhibitor on Mild Steel	FRGS, MOHE	42,800.00	2010	2012

4.	The Inhibitive Effect of Asymmetrical Azomethine Compounds on Corrosion of Aluminium	Excellent Fund, UiTM	10,000.00	2011	2013
5.	Synthesis, Characterization and Biological Studies of Different Substituents Group in Thiourea Complexes	RIF, UiTM	23,989.00	2012	2014
6.	The Resonance and Inductive Effects of Heterocyclic Nitrogenous Molecules on Their Bonding Mechanism with Iron	RIF, UiTM	9734.00	2012	2014
7.	Encapsulation of Metal-Cage Ligands for Electrochemistry Analysis	RAGS, MOHE	80,000.00	2012	2014
8.	Effects of Aluminium Nanocoating on the Corrosion Behaviour of Mild Steel	FRGS, MOHE	99,000.00	2013	2016
9.	Electrochemical and Mechanism Investigation of Conjugated Thiosemicarbazide as Corrosion Inhibitor	FRGS, MOHE	68,000.00	2013	2016
10.	Electrochemical and Mechanism Investigation of Conjugated Thiosemicarbazide as Corrosion Inhibitor Part 2	PSI, RMC UiTM	19,000.00	2013	2015
11.	Coordination Chemistry Group	REI, RMC UiTM	32,000.00	2015	2018
12.	Electrochemical Deposition and Characterization of Antimicrobial Copper and Copper Alloy Coatings	FRGS, MOHE	101,000.00	2015	2018

PUBLICATIONS AND PRESENTATIONS

JOURNAL ARTICLE

Noor Khadijah Mustafa Kamal, Adibatul Husna Fadzil, Karimah Kassim, **Shadatul Hanom Rashid**, Mohd Sufri Mastuli (2014). Synthesis, Characterization and Corrosion Inhibition Studies of o,m,p-decanoyl Thiourea Derivatives on Mild Steel in 0.1 M H₂SO₄ Solutions. Malaysian Journal of Analytical Sciences. 18(1):21-27.

Hadariah Bahron, Karimah Kassim, Sharifah Rohaiza Syed Omar, **Shadatul Hanom Rashid**, Hoong-Kun Fun, Suchada Chantrapromma (2007). (E,E)-N,N'-Bis(4-

chlorophenyl)ethylenediamine. Acta Crystallographica E. E63, 0558-0560.

CONFERENCE PROCEEDINGS

Shadatul Hanom Rashid, Xiaorong Zhou (2018). Hybrid Sol-Gel Coatings for Corrosion Protection of AA6111-T4 Aluminium Alloy. World Academy of Science, Engineering and Technology International Journal of Materials and Metallurgical Engineering Vol:12, No:6.

Zahidah Othman, Saifollah Abdullah, **Shadatul Hanom Rashid**, Mohd Husairi Fadzilah Suhaimi, Mohamad Kamal Harun, and Mohamad Rusop Mahmood (2018). The optimization of Al-nanostructured for mild steel coating: Effect of annealing temperature on the morphology and structural properties of mild steel. AIP Conference Proceedings Volume 2030, Issue 1.

Zahidah Othman, Saifollah Abdullah, **Shadatul Hanom Rashid**, Mohd Husairi Fadzilah Suhaimi, Mohamad Kamal Harun, and Mohamad Rusop Mahmood (2017). Effect of deposition time on the synthesis of Al nanostructured coating by electron beam thermal evaporator. AIP Conference Proceedings Volume 1901, Issue 1.

Amirah Ahmad, Hamizah Md Rasid, Adibatul Husna Fadzil, **Shadatul Hanom Rashid**, Karimah Kassim (2012). Synthesis and Characterization of $\text{CuO}_2(\text{acac})_2$ Supported on Functionalized MCM41 Containing Thiourea Ligand. 2nd International Conference on Chemistry and Chemical Engineering (ICCCE 2011). 29-31 July 2011, Chengdu, China.

Shadatul Hanom Rashid, Adibatul Husna Fadzil (2013). Investigation on Two Synthesized Azomethine Ligands as Corrosion Inhibitors for Mild Steel in 1M Hydrochloric Acid Solution. 26th Regional Symposium of Malaysia Analytical Sciences [SKAM26]. 4 – 5 December 2013, Hilton Kuching, Sarawak.

Adibatul Husna Fadzil, Karimah Kassim, **Shadatul Hanom Rashid** (2012). Synthesis, Characterization and Anticorrosion Studies of decanoyl thiourea derivatives on mild steel in acidic media. 25th Malaysian Symposium of Analytical Sciences (SKAMTM-25). 12 – 14 November 2012, Medan, Indonesia.

Adibatul Husna Fadzil, **Shadatul Hanom Rashid** (2012). Investigation of Thiourea Derivatives as Corrosion Inhibitors for Mild Steel in 1.0 M Hydrochloric Acid Solution. 16th Malaysian Chemical Congress. 12 – 14 October 2012, PWTC Kuala Lumpur.

Adibatul Husna Fadzil, **Shadatul Hanom Rashid**, Bohari Yamin (2012). Synthesis and Characterization of Decanoylthiourea Derivatives. 16th Malaysian Chemical Congress. 12 – 14 October 2012, PWTC Kuala Lumpur.

OTHER SERVICES OF EXPERTISE

1. Served as an examiner of M.Sc. pre-Viva theses, 2014.
2. Served as Reviewer of several research papers submitted to international conferences:
 - i. International Academy of Arts, Science & Technology (IAAST), 2015
 - ii. International Conference on Chemistry and Environmental Sciences Research (ICCESR), 2014
3. Served as an examiner of several Final year research projects, Faculty of Applied Science, UiTM, 2008- to present.
4. Served as an examiner of several proposals for Final year research projects, Faculty of Applied Science, UiTM, 2008 - to present.
5. Served as an evaluator for Industrial Training presentation, Faculty of Applied Science, UiTM, 2010 - to present.