



## DR HAMIZAH BINTI MD RASID

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### ACADEMIC QUALIFICATIONS

- |                               |                                |      |
|-------------------------------|--------------------------------|------|
| • PhD (Chemistry)             | Universiti Kebangsaan Malaysia | 2019 |
| • MSc. (Chemistry)            | Universiti Teknologi Malaysia  | 2008 |
| • BSc. (Industrial Chemistry) | Universiti Teknologi Malaysia  | 2007 |

### TEACHING RESPONSIBILITIES

- |          |                                   |
|----------|-----------------------------------|
| • FRS651 | Forensic Chemical Analysis        |
| • CHM413 | Introduction to Organic Chemistry |
| • CHM420 | General Chemistry                 |

### RESEARCH INTERESTS

- |                      |                               |
|----------------------|-------------------------------|
| • Material Chemistry | • Natural Rubber Modification |
| • Porous Materials   | • Fluorinated Rubber          |
| • Catalysis          |                               |

### ADMINISTRATIVE RESPONSIBILITY

- |                            |  |
|----------------------------|--|
| • August 2019 – July 2021  | Lecturer in charge of academic program – BSc. (Hons) Chemistry (Forensic Analysis) (AS253) |
| • September 2018 – present | Resource Person for FRS651   |

### PROFESSIONAL AFFILIATION

- |                         |  |
|-------------------------|--|
| • August 2019 – Present | Member of the Malaysian Institute of Chemistry |
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### AWARDS AND RECOGNITIONS

- Excellent Service Award 2013, Universiti Teknologi MARA Shah Alam
- Bronze Award in Invention, Innovation & Design Expo (IIDEX 2013)
- Bronze Award in International Innovation, Design and Articulation (i-IDEA 2013)
- Silver Award in 7<sup>th</sup> Exposition on Islamic Innovation (i-INOVA 2016)

## A. SUPERVISION

### POSTGRADUATE SUPERVISION (INCLUDES CO-SUPERVISION)

No	Candidate	Title of Thesis	Year Enrolled	Year End	Degree
1	Amirah Ahmad	Heterogeneous Catalyst from Thiourea Complexes Encapsulated onto Functionalized Mesoporous Materials	2010	2013	MSc
2	Nurul Barakah Ab Rahman	Synthesis, Characterization and Catalytic Performance of MCM-41 and SBA-15 from Bottom Ash of Tg Bin Power Plant	2014	2018	MSc

### UNDERGRADUATE SUPERVISION

No	Candidate	Year Enrolled	Year End	Program
1	Amirah Ahmad	2009	2010	AS225
2	Norhidayu Narawi	2009	2010	AS225
3	Amir Izzat Mohd Din	2009	2010	AS233
4	Amira Nadzirah Mohd Yusoff	2010	2011	AS225
5	Aznor Sahira Abdullah	2010	2011	AS225
6	Nurhayyu Muahamad Sanuri	2010	2012	AS202
7	Nafisah Aziz	2010	2012	AS202
8	Norsaadah Abdul Wahab	2010	2012	AS202
9	Mariati Mohamad	2011	2012	AS225
10	Nur Majeedah Aliah Nasir	2012	2013	AS233
11	Norhamilia Ibrahim	2013	2014	AS233
12	Norizzaty Yahde	2013	2014	AS233
13	Nurul Asma Salsabila Mohamad Alias	2013	2014	AS233
14	Nurul Syahirah Yusri	2013	2014	AS233
15	Farah Amira Shahrul Effendi	2018	2019	AS253
16	Isna Fazliana Mohamed Idrus	2018	2019	AS253
17	Nor Asyikin Arifan	2018	2019	AS253
18	Nur Syahirah Suhalim	2018	2019	AS253
19	Najwa Alia Noor Azmawi	2019	2020	AS253
20	Siti Noreha Md Nor	2020	2021	AS253
21	Nurul Syuhaida Mohd Tahir	2020	2021	AS253
22	Nur Adila Athirah Salim	2020	2021	AS253

## B. RESEARCH FUNDINGS

No	Research Project	Source	Total Funds	Begin Year	End Year
1	Investigation of Palladium (II) and Titanium (II) Complexes as Novel Heterogeneous Catalysts Mounted on Carbon Nanotubes and Mesoporous Materials	FRGS, MOHE	RM41,000.00 Co-researcher	2009	2011
2	Heterogeneous Catalysts from Thiourea Complexes Encapsulated onto Functionalized Mesoporous Materials	FRGS, MOHE	RM49,600.00 Principal	2010	2012
3	Analysis of Volatile Organic Compounds In-Car under Static Conditions	Dana Kecemerlangan UiTM	RM10,000.00 Co-researcher	2011	2012
4	Synthesis, Characterization and Catalytic Testing of Amino propylated Porous Silica Materials from Power Plant Bottom Ash	FRGS, MOHE	RM90,500.00 Principal	2013	2017

## C. PUBLICATIONS AND PRESENTATIONS

### RESEARCH BOOK

1. Siti Fairus M. Yusoff, **Hamizah Md Rasid** (2019). Polimer Kalis Air Berasaskan Getah Asli. Penerbit Universiti Kebangsaan Malaysia.

### ARTICLES IN REFEREED JOURNALS

1. **Hamizah Md Rasid**, Nafisah Aziz, Fazni Susila Abdul Ghani, Noraishah Abdullah (2020). Removal of Lead(II) and Chromium(III) from Aqueous Solution by Using Organic Functionalized MCM-41. Science Letters. 14(1): 23.

2. Mohamad Shahrul Fizree Idris, **Hamizah Md Rasid**, Fazira Firdaus, Siti Fairus M. Yusoff (2018). Hydrogenation of liquid natural rubber using 2,4,6-trimethylbenzenesulfonylhydrazide: Optimisation of reaction parameters via response surface methodology. *Polymer (Korea)*.4,107.
3. Nur Aidasyakirah Mohd Tahir, Nur Hanis Adila Azhar, **Hamizah Md Rasid**, Siti Fairus M. Yusoff (2017). Penghidrogenan getah asli cecair dan getah asli cecair terepoksida menggunakan diimida. *Journal of Polymer Science and Technology*. 2(1) 2017:1-10.
4. Nur Hanis Adila Azhar, **Hamizah Md Rasid**, Siti Fairus M. Yusoff (2017). Epoxidation and hydroxylation of liquid natural rubber. *Sains Malaysiana*. 46(3)2017: 485-491.
5. **Hamizah Md Rasid**, Nur Hanis Adila Azhar, Siti Fairus M. Yusoff (2017). Physicochemical properties of liquid natural rubber bearing fluoro groups for hydrophobic surfaces. *Journal of Polymer Research*. 24: 106.
6. Nur Hanis Adila Azhar, **Hamizah Md Rasid**, Nur Aidasyakirah Mohd Tahir, Siti Fairus M. Yusoff (2017). In Situ hydrogenation of liquid epoxidized natural rubber. *Malaysian Journal of Analytical Sciences*. Accepted.
7. **Hamizah Md Rasid**, Nur Hanis Adila Azhar, Naharullah Jamaluddin, Siti Fairus M. Yusoff (2016). Mild approach for non-catalytic hydrogenation of liquid natural rubber using MSH as diimide source. *Bulletin of the Korean Chemical Society*. 37:797-801.
8. Nurul Barakah Ab Rahman, **Hamizah Md Rasid**, Hashazirah M. Mohammad Hassan, Mohammad Noor Jalil (2016). Synthesis and characterization of mesoporous silica MCM-41 and SBA-15 from power plant bottom ash. *Malaysian Journal of Analytical Sciences*. 20(3): 539-545.
9. Nur Hanis Adila Azhar, Naharullah Jamaluddin, **Hamizah Md Rasid**, Muhammad Jefri Mohd Yusoff, Siti Fairus M. Yusoff (2015). Studies on hydrogenation of liquid natural rubber using diimide. *International Journal of Polymer Science*. 243038: 1-6.
10. Amirah Ahmad, **Hamizah Md Rasid**, Karimah Kassim (2013). Physicochemical properties of  $\text{CuO}_2(\text{acac})_2$  supported on functionalized MCM41 containing thiourea ligand. *International Journal of Chemical Engineering and Applications*. 4(1): 6-10.
11. Amirah Ahmad, **Hamizah Md Rasid**, Karimah Kassim (2012). Copper supported on functionalised MCM41 containing thiourea ligand as catalyst in oxidation of cyclohexene with hydrogen peroxide. *Malaysian Journal of Analytical Sciences*. 16(1): 62-70.
12. Zaini Hamzah, Norhidayu Narawi, **Hamizah Md Rasid**, Amira Nadzirah Md Yusoff (2012). Synthesis and characterization of mesoporous material functionalized with different silylating agent and their capability to remove  $\text{Cu}^{2+}$ . *Malaysian Journal of Analytical Sciences*. 16(3): 290-296.

## REFEREED CONFERENCE PROCEEDINGS

1. Isna Fazliana Mohamed Idrus, **Hamizah Md Rasid**. Adsorption of Methyl Orange On Mesoporous Silica Santa Barbara Amorphous SBA-15. Junior Science Communication Colloquium of Chemistry and Environment, School of Chemistry and Environment, Faculty of Applied Sciences, UiTM Shah Alam.
2. Farah Amira Shahrul Effendi, **Hamizah Md Rasid**. Adsorption of Methylene Blue by Mesoporous Silica Santa Barbara Amorphous SBA-15. Junior Science Communication Colloquium of Chemistry and Environment, School of Chemistry and Environment, Faculty of Applied Sciences, UiTM Shah Alam.
3. Nur Hanis Adila Azhar, **Hamizah Md Rasid**, Siti Fairus M. Yusoff. Chemical modifications of liquid natural rubber. The 2016 UKM FST Postgraduate Colloquium, 13 – 14 April 2016, Faculty of Science and Technology, UKM Bangi, Malaysia.
4. Adibatul Husna Fadzil, Nur Rashidah Abd Manap, Karimah Kassim, Zitty Sarah Ismail, Noor Khadijah Mustafa Kamal, **Hamizah Md Rasid**. Hydroxyphenyl thiourea derivatives: Synthesis, characterization and corrosion inhibition activity in sulphuric acid. 2013 IEEE Symposium on Business, Engineering and Industrial Applications (ISBEIA 2013), 22-25 September 2013, Kuala Lumpur, Malaysia.
5. Amirah Ahmad, Karimah Kassim, **Hamizah Md Rasid**. Synthesis and characterization of thiourea complex encapsulated into functionalized-MCM41 and their catalytic activities for oxidation reaction. 2012 IEEE Colloquium on Humanities, Science & Engineering Research (CHUSER 2012). 3-4 December 2012, Kota Kinabalu, Sabah.
6. Amirah Ahmad, **Hamizah Md Rasid**, Adibatul Husna Fadzil, Shadatul Hanom Rashid, Karimah Kassim. Synthesis and characterization of CuO<sub>2</sub>(acac)<sub>2</sub> supported on functionalized MCM41 containing thiourea ligand. 2011 2<sup>nd</sup> International Conference on Chemistry and Chemical Engineering (ICCCE 2011). 29-31 July 2011, Chengdu, China.
7. Adibatul Husna Fadzil, **Hamizah Md Rasid**, Mohd Sukeri Mohd Yusof, Bohari Mohd Yamin. Synthesis, characterization and crystal structure of 2-Methylbenzoyl thiourea derivatives. 2011 2<sup>nd</sup> International Conference on Chemistry and Chemical Engineering (ICCCE 2011). 29-31 July 2011, Chengdu, China.

## CONFERENCE PRESENTATIONS

1. **Hamizah Md Rasid**, Nafisah Aziz, Fazni Susila Abd Ghani, Noraishah Abdullah. Removal of Pb(II) and Cr(III) using Synthesized Organic-Functionalized MCM-41. Symposium on Pure and Applied Chemistry (SYMPAC2019). 31 October 2019, FSG, UiTM Shah Alam, Malaysia.
2. **Hamizah Md Rasid**, Siti Fairus M Yusoff. Synthesis and characterization of fluorinated natural rubber. The International Rubber Conference 2016 (IRC 2016). 24 – 28 October 2016, Kitakyushu, Japan.
3. **Hamizah Md Rasid**, Nur Hanis Adila Azhar, Siti Fairus M Yusoff. Fluorinated liquid natural rubber for the construction of hydrophobic surfaces. Malaysia – Thailand – Japan International Conference on Science and Technology (MTJICST). 28 – 29 September 2016, UKM Graduate Centre, Bangi, Malaysia.
4. **Hamizah Md Rasid**, Nur Hanis Adila Azhar, Fazira Firdaus, Siti Fairus M. Yusoff. Thermally stable polymer from modified rubber. 7<sup>th</sup> Exposition Islamic Innovation (iINNOVA) 2016. 8 -9 November 2016, Dewan Tuanku Canselor, Universiti Sains Islam Malaysia (USIM), Negeri Sembilan, Malaysia.
5. **Hamizah Md Rasid**, Siti Fairus M. Yusoff. Synthesis and characterization of chemically modified liquid natural rubber. The 16<sup>th</sup> Postgraduate Colloquium. 13 – 14 April 2016, Faculty of Science and Technology, UKM Bangi, Malaysia.
6. **Hamizah Md Rasid**. Direct synthesis and characterization of hydrophobic titanium supported on organic functionalized mesoporous silica. The 26<sup>th</sup> Regional Symposium of Malaysia Analytical Sciences (SKAM 26). 4 – 5 December 2013, Hilton Kuching, Sarawak.
7. Amirah Ahmad, **Hamizah Md Rasid**, Karimah Kassim, Adibatul Husna Fadzil, Zitty Sarah Ismail. Heterogenous catalyst from thiourea complex encapsulated into functionalized-MCM 41. Invention, Innovation and & Design Expo 2013 (IIDEX2013). 15 – 17 March 2013. Dewan Agung Tuanku canselor (DATC, UiTM Shah Alam.
8. Amirah Ahmad, Karimah Kassim, **Hamizah Md Rasid**. Synthesis and characterization of thiourea complex encapsulated into functionalized-MCM41 and their catalytic activities for oxidation reaction. 2012 IEEE Colloquium on Humanities, Science & Engineering Research (CHUSER2012). 3-4 December 2012, Kota Kinabalu, Sabah.
9. **Hamizah Md Rasid**, Salasiah Endud. Titanium-containing organic functionalized mesoporous silica for the liquid-phase catalytic epoxidation of 1-octene. The 24<sup>th</sup> Regional Symposium of Malaysian Analytical Sciences (SKAM24). 21– 23 November 2011. One Hotel Helang, Langkawi, Kedah.
10. **Hamizah Md Rasid**, Salasiah Endud. Physicochemical analysis of metal-containing organic functionalized mesoporous materials. 16<sup>th</sup> Malaysian Chemical Congress (16MCC). 12 – 14 October 2010. Putra World Trade Centre (PWTC) Kuala Lumpur.

## **D. OTHER SERVICES OF EXPERTISE**

1. Served as Reviewer for Sains Malaysiana (UKM)
2. Served as Reviewer of several research papers submitted to national and international conferences:
  - i. IEEE Symposium on Business, Engineering and Industrial Applications (ISBEIA 2013)
  - ii. International Conference on Composite Materials & Renewable Energy Applications (ICCMREA 2014)
  - iii. IEEE Colloquium on Humanities, Science and Engineering (CHUSER 2014)
  - iv. IEEE Symposium on Business, Engineering and Industrial Applications (ISBEIA 2014)
  - v. International Conference of Emerging Challenges in Engineering and Current Technology (ICECT2020)
  - vi. Terengganu Multidisciplinary International Conference (TEMIC 2018)
3. Served as Evaluator for Research Grant Research Collaboration Fund 2020 (RCF2020) UiTM Cawangan Terengganu