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EDUCATION

Universiti Teknologi MARA

- Doctor of Philosophy in Science (Ph.D) (Coordination Chemistry) 2009-2014
- Bachelor of Science (Honours) Chemistry 2006-2009

RESEARCH EXPERIENCE

On-Going Projects

- Polymetal Acyclic Azomethine Complexes As Homogeneous Catalysts For Suzuki Coupling Reaction. RM20,000, 600-IRMI 5/3/GIP (004/2018), Sep 2018-Aug 2019.
- Microwave Assisted Synthesis of 2-Acetylpyridine Derived Imine Complexes and Structure Activity as Potent Antibacterial Agents. RM30,000, 600-IRMI/DANA 5/3 BESTARI(P) (080/2018), Jan 2018-Dec 2019.
- Green Synthesis of Polynuclear Transition Metal Complexes for Optical Biosensors of Porcine Derivatives through DNA Binding. 600-IRMI/DANA 5/3 BESTARI(P) (046/2018), Jan 2108-Dec 2019.
- Mono-, di- and polynuclear metal complexes of soft *N,O*- ligands: Green synthesis through microwave application and bioactivity. RM50,000, 600-IRMI/MyRA 5/3/BESTARI (034/2017), Mar 2017-Feb 2019.

Completed Projects

- Coordination Chemistry Group. RM30,000, 600-RMI/DANA 5/3/REI(13/2015), June 2015-May 2018.
- Elucidation of Hydroxamic Acid Complexes as Possible Insulin Mimetic Agents. RM52,000, 600-RMI/RAGS 5/3 (8/2015), Dec 2015-Nov 2017. National Grant

PUBLICATIONS

1. Hassan, L.R., Ramasamy, K., Lim, S.M., Bahron, H., **Tajuddin, A. M.** (2018). Synthesis And Characterization of Benzohydroxamic Acid Metal Complexes and Their Cytotoxicity Study. *Jurnal Teknologi*, 80(6), 87-94.
2. Ahmad, S. N., Bahron, H., **Tajuddin, A. M.** (2018). Synthesis, spectroscopic investigation and catalytic studies of nickel(II) aromatic azomethine complexes. *Jurnal Teknologi*, 80(2), 77-82.
3. Ahmad, S. N., Bahron, H., **Tajuddin, A. M.**, Yusof, M. S. (2017). Crystal structure of 2,2'-(((2,2-dimethylpropane-1,3-diyl)bis(azanylylidene))bis(methanylylidene))-bis(4-methoxyphenol)palladium(II). *X-ray Structure Analysis Online*, 33(12), 73-74.
4. **Tajuddin, A. M.**, Ismail, N., Kassim, K. & Bahron, H. (2017). Synthesized and Extending the Bidentate Schiff Base Complexes Using Multilayer Feedforward Neural Network. *Journal of Fundamental and Applied Sciences*, 9(4S), 952-963.

5. Bahron, H. Ahmad, S. N., **Tajuddin, A. M.** & Syed Illah Al-Yahya Syed Abdul Kadir (2017). Substituent Effect on Catalytic Activity of Palladium(II) Schiff Base Complexes for Sonogashira Reaction. *Pertanika Journal Science & Technology*, 25(S), 115-124.
6. Bahron, H. Khaidir, S. S., **Tajuddin, A. M.** & Syed Abdul Illah Alyahya Syed Abd Kadir. Synthesis and characterisation of Mononuclear and Tetranuclear Zinc(II) Complexes of Schiff Bases Derived from Phenylenediamine. *Pertanika Journal Science & Technology*, 25(S), 309-316.
7. **Tajuddin, A. M.** & Bahron, H. (2017). Syntheses, Characterisation and Application of Palladium(II) Complexes as Catalysts in Heck Cross-Coupling Reaction. *Pertanika Journal Science & Technology*, 25(S), 125-136.
8. **Tajuddin, A.M.**, Anouar, E.H., Ramasamy, K., Yamin, B.M., Alharthi, A.I. & Bahron, H. (2017). DFT Analysis and Bioactivity of 2-((E)-(4-Methoxybenzylimino)methyl)phenol and Its Ni(II) and Pd(II) Complexes. *Arabian Journal of Chemistry*, 10(6), 769-780. (IF: 4.553)
9. **Tajuddin, A.M.** & Bahron, H. (2015). Synthesis and Characterization of Pd(II) and Ni(II) Complexes of Schiff Bases and Catalytic Activity of Pd(II) Complexes. *Scientific Research Journal*, 2, 1-12.
10. **Tajuddin, A.M.**, Bahron, H., Mohd Zaki, H., Kassim, K. & Chantrapromma, S. (2015). Crystal Structure of Bis(2-{1-[(E)-(4-fluorobenzyl)imino]ethyl}phenolato- κ^2 N,O})palladium(II). *Acta Crystallography*, E71, 350-353.
11. **Tajuddin, A.M.**, Bahron, H., Mohammad Hanafiah, R., Ibrahim, N., Fun, H-K. & Chantrapromma, S. (2014). Crystal structure of bis{2-[(E)-(4-fluorobenzyl)iminomethyl]phenolato- K^2N, O^1 }nickel(II). *Research Communications, Acta Crystallographica Section E*, E70, 252-255.
12. Bahron, H., **Tajuddin, A.M.**, Wan Ibrahim, W.N., Fun, H-K. & Chantrapromma, S. (2014). Crystal structure of bis{2-[(E)-(4-methoxybenzyl)iminomethyl]phenolato- κ^2N, O^1 }nickel(II). *Research Communications, Acta Crystallographica Section E*, E70, 104-106.
13. Bahron, H., **Tajuddin, A.M.**, Wan Ibrahim, W.N., Chantrapromma, S. & Fun, H-K. (2014). Bis{2-methoxy-6-[(E)-(4-methylbenzyl)iminomethyl]phenolato}palladium(II) chloroform mono-solvate. *Acta Crystallographica Section E*, E70, m289-m290.
14. **Tajuddin, A.M.**, Bahron, H., Kassim, K., Wan Ibrahim, W.N. & Fun, H-K. (2012). Synthesis and Characterisation of Palladium(II) Schiff Base Complexes and Their Catalytic Activities for Heck Reaction. *Advanced Materials Research*, 554-556, 736-740.
15. **Tajuddin, A.M.**, Bahron, H., Kassim, K., Wan Ibrahim, W.N. & Yamin, B.M. (2011). Synthesis and Characterization of Palladium(II) Schiff Base Complexes and Their Catalytic Activities for Suzuki Coupling Reaction. *The Malaysian Journal of Analytical Sciences*, 16, 79-87.
16. Bahron, H., **Tajuddin, A.M.**, Wan Ibrahim, W.N., Hemamalini, M. & Fun, H-K. (2011). Bis{2-[(E)-(4-fluorobenzyl)iminomethyl]-6-methoxyphenolato}palladium(II). *Acta Crystallographica Section E*, E67, m759-m760.
17. Bahron, H., **Mohd Tajuddin, A.**, Wan Ibrahim, W.N., Hemamalini, M., & Fun, H-K. (2011) *Bis{2-[(E)-(4-fluorobenzyl)iminomethyl]-6-methoxyphenolato- K^2N, O^1 }nickel(II)*, *Acta Crystallography Section E*, E67, m1010-m1011.

18. **Tajuddin, A.M.**, Bahron, H., Wan Ibrahim, W.N. & Yamin, B.M. (2010). Bis{2-[1-(benzylimino)ethyl]phenolato}palladium(II). *Acta Crystallographica Section E*, E66, m1100.
19. Shotor, S.N.M., Kassim, K., Bahron, H., **Tajuddin, A.M.**, Yusof, F.Z., Marmion, C.J. & Rajab, N.F. (2010) In-vitro cytotoxicity studies of vanadyl complexes with hydroxamic acid series, CSSR 2010 - 2010 *International Conference on Science and Social Research*, art. no. 5773735, 1283-1286.

SUPERVISION EXPERIENCE

- PhD and MSc of Inorganic Chemistry, 2015-Present

No.	Name	Program	Role	Year
1	Shahrul Nizam Ahmad	AS990 (PhD)	Co-Supervisor	2014-2018
2	Latifah Robbaniyyah Hassan	AS756 (MSc)	Main-Supervisor	2016-
3	Siti Solihah Khaidir	AS756 (MSc)	Co-Supervisor	2016-2018
4	Siti Nur Elyani Awizuha	AS756 (MSc)	Main-Supervisor	2018-
5	Fatin Raudah Muhamad Ridza	AS756 (MSc)	Co-Supervisor	2018-

- Project Supervisor to Final Year Students of Chemistry and Applied Chemistry, Universiti Teknologi MARA, 2015-Present
- Laboratory Demonstrator to Undergraduate Students of Chemistry and Applied Chemistry, 2015-Present

CONFERENCES

Oral

1. **Tajuddin, A.M.** and Ismail, N. (2018). Synthesized and Extension of Bidentate Schiff Base Complexes: Exploring the Application using Multilayer Feedforward Neural Network. *Paper presented at 34th International Conference on Natural Products (ICNP2018)*. March 19-21, Bayview Hotel, Penang, Malaysia.
2. Hassan, L.R., **Tajuddin, A.M.**, Bahron, H. and Ramasamy, K (2017). Synthesis and Characterization of Benzohydroxamic Acid and Methylbenzohydroxamic Acid Metal Complexes and Their Cytotoxicity Study. *Paper presented at The 30th Regional Symposium of Malaysia Analytical Sciences (SKAM-30)*. Aug 26-29, Hatten Hotel, Melaka, Malaysia.
3. **Tajuddin, A.M.**, and Bahron, H. (2016). Syntheses, Characterization and Application of Palladium(II) Complexes as Catalysts in Heck Cross-Coupling Reaction. *Paper presented at 3rd International Conference on Science and Social Research*. Dec 6-7, The Everly Hotel, Putrajaya, Malaysia.
4. **Tajuddin, A.M.**, and Bahron, H. (2016). Pd(II) Complex Heterogenized on MCM-41: A Heterogeneous Catalyst For Heck Cross-Coupling Reaction. *Paper Presented at International Conference on Catalysis*. Nov 20-21, Grand Bluewave, Johor Bahru, Malaysia.
5. **Tajuddin, A.M.**, and Bahron, H. (2015). Synthesis and Characterization of Pd(II) and Ni(II) Complexes of Schiff Bases and Catalytic Activity of Pd(II) Complexes. *Paper presented at*

2nd International Conference on Science and Social Research. Oct 5-6, Grand Bluewave, Shah Alam, Malaysia.

6. **Tajuddin, A.M.**, Bahron, H., Kassim, K., Wan Ibrahim, W.N. and H-K, Fun (2012). Synthesis and Characterisation of Palladium(II) Schiff Base Complexes and Their Catalytic Activities for Heck Reaction. *Paper presented at 2nd International Conference on Chemical Engineering and Advanced Materials (ICCEAM)*. July 13-15, Nanyang King's Gate Hotel, Guangzhou, China.
7. **Tajuddin, A.M.**, Bahron, H. and Yamin, B.M. (2010). X-ray Crystallographic Studies of Palladium(II) Complexes of Bidentate Schiff Base Ligands. *Paper presented at 60th Anniversary Conference on Coordination Chemistry (JSCC)*. Sept 27-30, International House, Osaka, Japan.

Poster

1. **Tajuddin, A.M.**, Bahron, H., Kassim, K., Wan Ibrahim, W.N. and Bohari M. Yamin (2011). Synthesis and Characterization of Palladium(II) Schiff Base Complexes and Their Catalytic Activities for Suzuki Coupling Reaction. *Paper presented The 24th Regional Symposium of Malaysia Analytical Sciences (SKAM-24)*. Nov 21-23, One Hotel Helang, Langkawi, Malaysia.
2. **Tajuddin, A.M.**, Bahron, H., Kassim, K., Wan Ibrahim, W.N. and Yamin, B.M. (2010). Synthesis and Characterization of Palladium(II) Complexes of Bidentate Schiff Base Ligands. *Paper presented at 16th Malaysian Chemical Congress (16MCC)*. Oct 12-14, Putra World Trade Centre (PWTC), Kuala Lumpur.

PROFESSIONAL CONTRIBUTION AND AFFILIATIONS

- Affiliate of the Young Scientists Network-Academy of Sciences Malaysia (YSN-ASM) 2018-2021
- Manuscript Reviewer ICACEST and ICASIT2018 2018
- International Conference on Nanoscience and Nanotechnology (NANO-SciTech 2018) (Chairperson) 2018
- Fellow Researcher, Atta-ur-Rahman Institute (AuRIns, UiTM) 2017-present
- Journal Reviewer for Arabian Journal of Chemistry 2017-present
- Panel for Hadiah ANALIS 2016 2017
- American Chemical Society (Member) 2017
- Malaysian Institute of Chemistry (Member) 2016-present
- Café Scientific @ Colloquium, Faculty of Applied Sciences (Committee) 2015-present
- Panel for Defense Research Proposal and Pre-Viva, Viva (Rapporteur) 2015-present

AWARDS AND HONOURS

- Invention, Innovation and Design Exposition (2 Silver & 1 Bronze) 2017

- Anugerah Perkhidmatan Cemerlang Universiti Teknologi MARA 2016
- Invention, Innovation and Design Exposition (Bronze) 2016
- Finalist PhD Thesis for ANALIS Award, Malaysia 2015
- Young Lecturer's Scheme (Fellowship), Universiti Teknologi MARA 2010-2014
- SLAB/SLAI (Fellowship), Ministry of Higher Education, Malaysia 2010-2014
- Dean's Honour List, Universiti Teknologi MARA 2006-2009

OUTREACH/COMMUNITY SERVICE

- Dapur Jalanan KL 2018
- Olympiad Sains dan Matematik (GAGASAN) 2016-2017
- Program Misi Kemasyarakatan ke Sekolah Perguruan Islam Darul Muwahhidiin, Panyalaian, Indonesia 2015-2016
- Festival Sains, Teknologi dan Inovasi (FESTASI) 2015-2016
- Reach Out Run, Run For A Cause 2015
- Member of Buku Jalanan, Shah Alam 2014-present
- Reach Out Malaysia (Homeless) 2014
- Ceriakan Ramadhan Bersama Penduduk Kampung Orang Asli Ulu Yam 2014
- Majlis Berbuka Puasa at Pusat Jagaan Nuri, Setapak 2012

REFERENCES

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 Atta-ur-Rahman Institute for Natural Product Discovery (AuRIns)
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