

# CURRICULUM VITAE



A. BUTIR-BUTIR PERIBADI ( <i>Personal Details</i> )			
Nama Penuh ( <i>Full Name</i> )	Haslina Binti Ahmad		Gelaran ( <i>Title</i> ):Dr
No. MyKad / No. Pasport ( <i>Mykad No. / Passport No.</i> ) 841031-08-5518	Warganegara ( <i>Citizenship</i> ) Malaysian	Bangsa ( <i>Race</i> ) Malay	Jantina ( <i>Gender</i> ) Female
Jawatan ( <i>Designation</i> )	Senior Lecturer	Tarikh Lahir ( <i>Date of Birth</i> )	31 October 1984

Alamat Semasa ( <i>Current Address</i> )	Jabatan/Fakulti ( <i>Department/Faculty</i> )	E-mel dan URL ( <i>E-mail Address and URL</i> )
Chemistry Department, Faculty of Science, Universiti Putra Malaysia, 43400 Serdang, Selangor.  Tel: 03-89467486	Chemistry Department, Faculty of Science.  Tel: 03-89467486 Fax: 03-89432508	E-mail: <a href="mailto:haslina_ahmad@upm.edu.my">haslina_ahmad@upm.edu.my</a>  URL: <a href="http://www.upm.edu.my">www.upm.edu.my</a>  H/P: 012-9060693

B. KELAYAKAN AKADEMIK ( <i>Academic Qualification</i> )			
Nama Sijil / Kelayakan ( <i>Certificate / Qualification obtained</i> )	Nama Sekolah Institusi ( <i>Name of School / Institution</i> )	Tahun ( <i>Year obtained</i> )	Bidang pengkhususan ( <i>Area of Specialization</i> )
Ph.D (Chemistry)	University of Sheffield	2009	Inorganic Chemistry
B.Sc. (Hons.) (Chemistry)	Universiti Teknologi Malaysia	2005	Pure Chemistry

C. KEMAHIRAN BAHASA ( <i>Language Proficiency</i> )					
Bahasa / <i>Language</i>	Lemah <i>Poor (1)</i>	Sederhana <i>Moderate (2)</i>	Baik <i>Good (3)</i>	Amat Baik <i>Very good (4)</i>	Cemerlang <i>Excellent (5)</i>
English				/	
Bahasa Melayu				/	
Chinese					
Lain-lain ( <i>other</i> ):					

D. PENGALAMAN SAINTIFIK DAN PENGKhususan ( <i>Scientific experience and Specialisation</i> )				
Organization	Position	Start Date	End Date	Expertise
Kyoto University	Postdoctoral	8 April 2013	17 February 2014	Theoretical studies on DNA based catalyst
Chemistry Department, University of Sheffield	Postgraduate Student	2 October 2006	30 September 2009	Coordination complexes, DNA binding, biosensor

<b>E. PEKERJAAN (Employment)</b>				
Majikan / Employer	Jawatan / Designation	Jabatan / Department	Tarikh lantikan / Start Date	Tarikh tamat / Date Ended
Universiti Putra Malaysia	Senior Lecturer	Chemistry Department	1 October 2009	N/A

<b>F. ANUGERAH DAN HADIAH (Honours and Awards)</b>				
Name of awards	Title	Award Authority	Award Type	Year
Academic Awards	Graduate Chemistry Award	Malaysian Institute of Chemistry	National	2005
	Postdoctoral fellowship	Ministry of Education Malaysia	National	2013
Non-Academic Awards	Adi Pengajar Muda 2011	Universiti Putra Malaysia	University	2011
Awards of Merit	Silver medal in The International Conference and Exposition on Inventions (PENCIPTA '15)	Ministry of Higher Education	International	2015
	Gold medal in Pameran Rekacipta Penyelidikan dan Inovasi UPM 2014	Universiti Putra Malaysia	University	2014
	Malaysian Innovation Expo (MIExpo 2013)	Universiti Putra Malaysia	University	2013
	Silver medal in Pameran Rekacipta Penyelidikan dan Inovasi UPM 2011	Universiti Putra Malaysia	University	2011

<b>G. SENARAI PENERBITAN (Sila masukan nama pengarang, tajuk, nama jurnal, jilid, muka surat dan tahun diterbitkan) (List of publications – author (s), title, journal, volume, page and year published)</b>	
Journal	<ol style="list-style-type: none"> <li>E. D. M. Isa, M. B. A. Rahman, H. Ahmad. (2017). Silica Coated Ionic Liquid Templated Mesoporous Silica Nanoparticle, <i>Journal of Fundamental and Applied Sciences</i>, Accepted.</li> <li>M. R. Gill, S. N. Harun, S. Halder, R. A. Boghazian, K. Ramadan, <b>H. Ahmad</b> and K. A. Vallis. A ruthenium polypyridyl intercalator stalls DNA replication forks, radiosensitizes human cancer cells and is enhanced by Chk1 inhibition, <i>Scientific Reports</i>, 6, 31973, 2016.</li> <li>K. Jumbri, <b>H. Ahmad</b>, E. Abdulmalek, M. B. A. Rahman. Binding energy and biophysical properties of ionic liquid-DNA complex: Understanding the role of hydrophobic interactions, <i>Journal of Molecular Liquids</i>, 223, 1197–1203, 2016.</li> <li>N. I. A. Halid, E. I. Zakariah, L. Y. Heng, N. H. A. Karim, <b>H. Ahmad</b>, S. A. Hasbullah. Fabrication of Porcine DNA Biosensor Based on Ruthenium Bipyridine Complex, <i>Malaysian Journal of Analytical Sciences</i>, 20(5), 1020 – 1032, 2016.</li> <li>M. B. A. Rahman, S. Z. Begum, M. I. M. Tahir, <b>H. Ahmad</b>, E. A. Malek. Spectroscopic Characterization of Copper(II)-based Tetrapeptides, <i>Malaysian Journal of Analytical Sciences</i>, 20 (4), 735 – 740, 2016.</li> <li>S. N. Harun, Y. Razak and <b>H. Ahmad</b>. (2016). Synthesis, Characterization and DNA Binding Activity of a Potential DNA Intercalator, <i>Malaysian Journal of Analytical Sciences</i>, 20, 760-769.</li> <li>M. G. Walker, P. J. Jarman, M. R. Gill, X. Tian, <b>H. Ahmad</b>, P. A. N. Reddy, L. McKenzie, J. A. Weinstein, A. J. H. M. Meijer, G. Battaglia, C. G. W. Smythe, J. A. Thomas. A Self-Assembled Metallomacrocyclic Singlet Oxygen Sensitizer for Photodynamic Therapy, <i>Chemistry - A European Journal</i>, 22, 5996 – 6000, 2016.</li> <li>E. N. Md. Yusof, J. Jamsari, T. B. S. A. Ravooft, E. R. T. Tiekink, A. Veerakumarasivam, K. A. Crouse, M. I. M. Tahir and <b>H. Ahmad</b>. Synthesis, characterization and biological studies of transition metal complexes containing two chelating S-4-Methylbenzyl-β-N-(2-furylmethylene)dithiocarbamate (S4MFuH) ligands, <i>Inorganica Chimica Acta</i>, 438, 85-93, 2015.</li> <li>T. T. C. Ting, K. A. Crouse and <b>H. Ahmad</b>, Synthesis, Characterization and DNA Binding Studies of [Ruthenium(II)(bpy)<sub>2</sub>L]<sup>2+</sup> where L are Derivatives of imidazo[4,5-f]-1,10-phenanthrolines, <i>Sains Malaysiana</i>, 44, 619–628, 2015.</li> <li>E. N. Md. Yusof, T. B. S. A. Ravooft, E. R. T. Tiekink, A. Veerakumarasivam, K. A. Crouse, M. I. M. Tahir and <b>H. Ahmad</b>, Synthesis, Characterization and Biological Evaluation of Transition Metal Complexes Derived from N, S Bidentate Ligands, <i>International Journal of Molecular Sciences</i>, 16, 11034-11054, 2015</li> <li>K. Jumbri, E. Abdulmalek, <b>H. Ahmad</b>, M. B. A. Rahman and N. M. Micaelo, Insight into Structure and Stability of DNA in Ionic Liquids: Molecular Dynamics Simulation and Experimental Approaches, <i>Physical Chemistry Chemical Physics</i>, 16, 14036, 2014</li> </ol>

	<ol style="list-style-type: none"> <li>12. <b>H. Ahmad</b>, D. Ghosh, and J. A. Thomas, Using ancillary ligands to tune the DNA binding properties of self-assembled luminescent metallomacrocycles, <i>Chemical Communication</i>, 50, 3829, 2014.</li> <li>13. <b>H. Ahmad</b>, A. Wragg, W. Cullen, C. Wombwell, A. J. H. M. Meijer, and J. A. Thomas, From Intercalation to Groove Binding: Switching the DNA-Binding Mode of Isostructural Transition-Metal Complexes, <i>Chemistry – A European Journal</i>, 20, 3089-3096, 2014.</li> <li>14. K. K. Abid, S. M. Al-Barody, <b>H. Ahmad</b>, Rare earths complexes of single arm N – aryl Schiff base ligand, <i>Journal of Applied Chemistry</i>, 2 (1), 71-81, 2014.</li> <li>15. S.W. Dutse, N.A. Yusof, <b>H. Ahmad</b>, M.Z. Hussein and Z. Zainal, R. Hushiarian, and R. Hajian, An Electrochemical Biosensor for the Determination of Ganoderma Boninense Pathogen Based on a Novel Modified Gold Nanocomposite Film Electrode, <i>Analytical Letters</i>, 47, 819-832, 2014.</li> <li>16. <b>H. Ahmad</b>, B. W. Hazel, A. J. H. M. Meijer, J. A. Thomas and K. A. Wilkinson, A self-assembled luminescent host that selectively senses ATP in water, <i>Chemistry – A European Journal</i>, 19 (16), 5081-5087, 2013.</li> <li>17. S. W. Dutse, N. A. Yusof, <b>H. Ahmad</b>, M. Z. Hussein and Z. Zainal, R. Hushiarian, DNA-based Biosensor for Detection of Ganoderma boninense, an Oil Palm Pathogen Utilizing Newly Synthesized Ruthenium Complex <math>[\text{Ru}(\text{phen})_2(\text{qtpy})]^{2+}</math> Based on a PEDOT-PSS/Ag Nanoparticles Modified Electrode. <i>International Journal of Electrochemical Science</i>, 8, 11048 – 11057, 2013.</li> <li>18. S. W. Dutse, N. A. Yusof, <b>H. Ahmad</b>, M. Z. Hussein and Z. Zainal, An Electrochemical DNA Biosensor for Ganoderma Boninense Pathogen of the Oil Palm Utilizing a New Ruthenium Complex, <math>[\text{Ru}(\text{dppz})_2(\text{qtpy})]\text{Cl}_2</math>. <i>International Journal of Electrochemical Science</i>, 7, 8105 – 8115, 2012.</li> <li>19. <b>H. Ahmad</b>, A. J. H. M. Meijer and J. A. Thomas, Tuning the Excited State of Photoactive Ru(II)-Containing Building Blocks for Metal-Templated Self-Assembly, <i>Chemistry – An Asian Journal</i>, 6, 2339- 2351, 2011.</li> <li>20. D. Ghosh, <b>H. Ahmad</b>, J. A. Thomas, Kinetically Locked Luminescent Metallomacrocycles as Duplex DNA Binding Substrates, <i>Chemical Communication</i>, 2947-2949, 2009.</li> </ol>
<p>Proceedings</p>	<ol style="list-style-type: none"> <li>1. K. Jumbri, <b>H. Ahmad</b>, E. A. Malek, M. B. A. Rahman, Biophysical Properties of DNA in Hydrated Ionic Liquids, AIP Conference Proceeding 4th International Conference on Fundamental and Applied Sciences (ICFAS2016), 15-17 August 2016, Kuala Lumpur, Malaysia.</li> <li>2. S. N. Harun and <b>H. Ahmad</b>, DNA Binding and Anticancer Activities of Ruthenium Polypyridyl Mixed Ligands Complexes, 29th Regional Symposium of Malaysia Analytical Sciences (SKAM 29), 15-17 August 2016, Bayview Beach Resort, Penang.</li> <li>3. S. N. Harun, M. R. Gill and <b>H. Ahmad</b>, Cytotoxicity Studies on Novel Dppz-based Ruthenium(II) Complexes, 29th Regional Symposium of Malaysia Analytical Sciences (SKAM 29), 15-17 August 2016, Bayview Beach Resort, Penang.</li> <li>4. S. N. Harun, Y. Razak and <b>H. Ahmad</b>, Synthesis, Characterization and DNA Binding Activity of A Potential DNA Intercalator, 28th Regional Symposium of Malaysia Analytical Sciences (SKAM 28), 17-20 August 2015, Weil Hotel, Ipoh.</li> <li>5. S. N. Harun and <b>H. Ahmad</b>, Tuning the Cytotoxic Properties of Novel Ruthenium(II) Polypyridyl Complexes, 28th Regional Symposium of Malaysia Analytical Sciences (SKAM 28), 17-20 August 2015, Weil Hotel, Ipoh.</li> <li>6. Y. A. Razak and <b>H. Ahmad</b>, Synthesis, Characterization and DNA Binding Activity of A Potential DNA Intercalator, 27th Regional Symposium of Malaysia Analytical Sciences (SKAM 27), 9-10 December 2014, KSL Resort, Johor Bahru, Malaysia.</li> <li>7. K. Jumbri, <b>H. Ahmad</b>, E. AbdulMalek and M. B. A. Rahman, Biophysical Properties of DNA in Hydrated Ionic Liquid, 27th Regional Symposium of Malaysia Analytical Sciences (SKAM 27), 9-10 December 2014, KSL Resort, Johor Bahru, Malaysia.</li> <li>8. Y. A. Razak and <b>H. Ahmad</b>, Synthesis, Characterization and DNA Binding Activity of A Potential DNA Intercalator, 18th Malaysian International Chemical Congress (18MICC), 3-5 November 2014, Putra World Trade Centre, Kuala Lumpur, Malaysia</li> <li>9. N. I. A. Halid, S. A. Hasbullah, H. Ahmad, L.Y. Heng, N. H. A. Karim and S. N. Harun Electrochemical DNA Biosensor For Detection of Porcine Oligonucleotides Using Ruthenium(II) Complex as Intercalator Label Redox, The 2014 UKM FST Postgraduate Colloquium, 9-11 April 2014, Universiti Kebangsaan Malaysia, Selangor, Malaysia.</li> <li>10. N. I. A. Halid, S. A. Hasbullah, <b>H. Ahmad</b>, L. Y. Heng, N. H. A. Karim and S. N. Harun, Preliminary Study On Electrochemical DNA Biosensor for Detection of Oligonucleotides Using Ruthenium(II) Complexes As Label Redox Intercalator, AsiaSense 2013, 27-29 August 2013, Ramada Plaza Melaka Hotel, Melaka, Malaysia.</li> <li>11. <b>H. Ahmad</b> and J. A. Thomas, A self-assembled luminescent host that selectively senses ATP in water, 11th European Biological Inorganic Chemistry Conference (EUROBIC11), 12-16 September 2012, Granada, Spain.</li> <li>12. S. N. Harun, <b>H. Ahmad</b> and J. A. Thomas, A Selective Antitumor Ruthenium Complex, 17th Malaysian Chemical Congress, 15-17 October 2012, Putra World Trade Centre, Kuala Lumpur, Malaysia.</li> </ol>

	<p>13. M. B. A. Rahman, K. Jumbri, E. AbdulMalek, B. A. Tejo, <b>H. Ahmad</b>, M. Basri and A. B. Salleh, New design and synthesis of adenine-based ionic liquid by microwave irradiation, 24th Malaysian Symposium of Analytical Sciences (SKAM-24), 21-23 Dec 2011, One Hotel Helang, Langkawi, Kedah, Malaysia.</p> <p>14. <b>H. Ahmad</b> and J. A. Thomas, Kinetically Locked Metallomacrocycles as Self-Assembled Hosts and Sensors for Biomolecules, The Fourth International Symposium on Macrocyclic and Supramolecular Chemistry (ISMSC2009), 21-25 June 2009, Maastricht, The Netherland.</p> <p>15. <b>H. Ahmad</b> and J. A. Thomas, The Synthesis of Photoactive Building Blocks For Metal Templated Self-Assembly, the Joint RSC Meeting of the UK Macrocycles and Supramolecular Chemistry Group and the Chemical Nanoscience and Nanotechnology Group (Supra-Nano 2008), 16-18 December 2008, University of Birmingham, United Kingdom.</p> <p>16. <b>H. Ahmad</b> and J. A. Thomas, The Synthesis of Photoactive Building Blocks for Metal-Templated Self-Assembly, The Fourth International Symposium Macro- and Supramolecular Architectures and Materials (MAM-08), 7-11 September 2008, Heinrich Heine Universität, Düsseldorf, Germany.</p> <p>17. <b>H. Ahmad</b> and J. A. Thomas, The Synthesis of Photoactive Building Blocks for Metal Templated Self-Assembly, RSC Dalton Division Regional 2008, 24 June 2008, University of Huddersfield, United Kingdom.</p>
<i>Other publications</i>	<p>Title: A Modified Electrode For Detection of Biological Material  Inventor: N. A. Yusof, S. Wada, <b>H. Ahmad</b>  IP Type: Patent  IP Status: Pending Patent  Filed Date: 2012-06-15  Application No.: PI2012002703  Country Filing: Malaysia</p>

<b>H. PROJEK PENYELIDIKAN TERDAHULU</b> ( <i>Past Research Project</i> )					
<i>Project No.</i>	<i>Project Title</i>	<i>Role</i>	<i>Year</i>	<i>Source of fund</i>	<i>Status</i>
<i>0153AA-F21</i>	Development of Cholinium based Pharmaceutical Active Ionic Liquids (API-ILs) as an Antimicrobial Potential	Co-researcher	2016-2017	Universiti Teknologi Petronas, Malaysia	On-going
<i>GP-IPS/2017/9520100</i>	Development of Drug Delivery Agent Based on Ionic Liquid Templated Mesoporous Silica Nanoparticles	Project leader	2017-2018	Putra Grant-IPS	On-going
<i>GP-IPS/2016/9472600</i>	Development of Fluoromagnetic Drug Delivery Anticancer Agent Based on Ruthenium(II) Complex and Iron Nanoparticles	Project leader	2016-2018	Putra Grant-IPS	On-going
<i>01-01-14-1466FR</i>	Investigation into the Relationship between DNA binding and Antitumor Activity of Novel Ruthenium Complexes	Project leader	2014-2016	FRGS (MOE)	On-going
<i>02-01-02-SF1212</i>	Electrochemical DNA Biosensor for Detection of Porcine DNA Sequences using Ruthenium Complex as Intercalator Label Redox for Halal Product Identification	Co-researcher	2014-2016	SciFund (MOSTI)	On-going
<i>05-02-12-1849RU</i>	Rational Design of Room Temperature Ionic Liquids for DNA Molecular Solvation	Co-researcher	2012-2014	RUGS (UPM)	Completed
<i>05-02-10-0929RU</i>	Luminescence Liquid Crystals Based on Ruthenium(II)-Containing Metallomesogens	Project leader	2010-2013	RUGS (UPM)	Completed