Curriculum Vitae

BUTIR-BUTIR PERIBADI ***(Personal Details)***			
Nama Penuh *(Full Name)*	Shahrul Ainliah Alang Ahmad		Gelaran *(Title)*: Associate Professor
No. MyKad / No. Pasport *(Mykad No. / Passport No.)* 821107-10-5514	Warganegara *(Citizenship)* Malaysia	Bangsa *(Race)* Malay	Jantina *(Gender)* Female
Jawatan *(Designation)*	Prof. Madya	Tarikh Lahir *(Date of Birth)*	07/11/1982

Alamat Semasa *(Current Address)*	Jabatan/Fakulti *(Department/Faculty)*	E-mel dan URL *(E-mail Address and URL)*
Jabatan Kimia, Fakulti Sains, Universiti Putra Malaysia 43400 Serdang, Selangor Tel: +603-92741508	Jabatan Kimia, Fakulti Sains, Universiti Putra Malaysia 43400 Serdang, Selangor Tel:+603-89466805 Fax: +603-89435380	E-mail: ainliah@upm.edu.my URL: H/P: +6013-2402100

KELAYAKAN AKADEMIK ***(Academic Qualification)***			
Nama Sijil / Kelayakan *(Certificate / Qualification obtained)*	Nama Sekolah Institusi *(Name of School / Institution)*	Tahun *(Year obtained)*	Bidang pengkhususan *(Area of Specialization)*
Bachelor of Science (Hons)	Universiti Putra Malaysia	2005	Industrial Chemistry
PhD	University of Sheffield	2009	Nanoscale Analytical Chemistry
Postdoctoral	University of Sheffield	2009-2010	Physical and Analytical Chemistry
Postdoctoral	University of New South Wales	2013-2014	Surface Modification and Electrochemistry

KEAHLIAN BADAN PROFESIONAL SEMASA *(*Current Professional Membership*)*			
Nama badan profesional *Name of Professional body*	*Tempoh Keahlian* *Duration of Membership (From – To)*	Jenis Keahlian *Type of Membership*	*Peranan* *Role*
Royal Society of Chemistry	2017-2018	Fellow	
Kelab Kimia	2011-2013	Coordinator	As an advisor
Persatuan Biosensor Malaysia	2017-2018	Member	

PROJEK PENYELIDIKAN SEMASA DAN TERDAHULU (*Current and Past Research Project*)					
Project No.	*Project Title*	*Role*	*Year*	*Source of fund*	*Status*
British Council Newton Fund (216196834)	Harnessing Nanotechnology for Robust and Sensitive Tropical Disease Detection in a Malaysian Setting	Partner Main Principal	2016	£149,933	Completed (2016-2018)
FRGS/1/2017/STG01/UPM/02/4	Surface Modification of Mn-Doped PbS Quantum Dots with Calixarene for Removal of Polyaromatic Hydrocarbons (PAHs) from Wastewater	Project leader	2017	RM95050	On-going 2017-2019
UPM/700-2/1/GPB/2017/9557800	Electrochemical Detection of Polycylic Aromatic Hydrocarbons (PAHs) Using Calixarene-Functionalized Graphene Oxide Sensor	Project leader	2017	RM77,600	On-going 2017-2019
9580900	Electrochemical detection of uric acid in biological samples	Project leader	2017	RM 177,800	On-going 2017-2020
	Enhancing quantum Yield emission of PbS/MnS core shell quantum dots for functional contrast agent prepared via cation exchange mechanism	Member	2017	RM50,000	On-going 2017-2019
GP-IPS/2018/9647600	Functionalization Magnetite Lead Sulphide (PbS) quantum dots with 4-tertbutylcalixarene for polyaromatic hydrocarbon removal	Project leader	2018	RM25,000	On-going 2018-2020
GP-IPS/2018/9647500	Synthesis of Calixarene-polurethane nanofiber for heavy metal removal	Project leader	2018	RM22,000	On-going 2018-2020
GP-IPS/2018/9642700	Surface modification of screen printed carbon electrode with calixarene-graphene oxide Nanocomposite for electrochemical detection of polycylic aromatic hydrocarbon (PAHs)	Project leader	2018	RM25,000	completed 2018-2020
UPM/800-4/11/MRUN/2018/5539230	Immuno Based Biosensors system for ultrasensitive non invasive and affordable detection of Mycobaterium Tuberculosis (TB) for future home test kit	Member	2018	467,500	On-going 2018-2020
PRGS/1/2018/STG01/UPM/02/1	Development of Electrochemical Sensor Based on Micro-Patterned Calixarene Electrode for Heavy Metal Detection	Project leader	2019	RM99,000	2019-2021

SENARAI PENERBITAN *(Publication)* *(List of publications – author (s), title, journal, volume, page and year published)*		**Total Number of Publication**
Journal	1) Aziz, S.F.N.A., Zawawi, R.M. and Ahmad, S.A.A.A. **An Electrochemical Sensing Platform for the Detection of Lead Ions Based on Dicarboxyl-Calix[4]arene**, Electroanalysis, 2018, 30,1-11 2) Talib, N.A.A, Salam, F.; Yusof, N.A.; Ahmad, S.A.A, Azid, M.Z., Mirad, R. and Sulaiman, Y., 2018 **Enhancing a clenbuterol immunosensor based on poly(3,4-ethylenedioxythiophene)/multi-walled carbon nanotube performance using response surface methodology** RSC Adv.,2018,8,15522-15532 3) Ahmad, S.A.A.A, Ciampi, S., Parker, S. G., Goncales, V.R. and Gooding, J.J. **Forming Ferrocenyl Self-Assembled Monolayers on Si(100) Electrodes with Different Alkyl Chain Lengths for Electron Transfer Studies** ChemElectrochem, 2019, 6, 211-212 4) Zainal, P. N., Ahmad, S.A.A. and Ngee, L.H. **Surface Modification of Screen-Printed Carbon Electrode (SPCE) with Calixarene-Functionalized Electrochemically Reduced Graphene Oxide (ERGO/C4) in the Electrochemical Detection of Anthracene,** Journal of the Electrochemical Society, 2019, 166(2): B110-B116 5) Rani, E. Mohshim, S.A., Ahmad, M.Z., Goodacre, R., Ahmad, S.A.A. & Wong, L.S. **Polymer Pen Lithography-Fabricated DNA Arrays for Highly Sensitive and Selective Detection of Unamplified Ganoderma Boninense DNA,** Polymer, 2019, 11, 561 6) Zaini, M.S., Kamarudin, M. A., Chi, J.L.Y., Alang Ahmad, S.A. and Mohmad, A. R. **Temperature and Power Dependence Of Photoluminescence In Pbs Quantum Dots Nanoparticles,** Sains Malaysiana, 2019, 6,1281-1288. 7) M. A. Jamilan, J. Abdullah, S. A. Alang Ahmad and M. F. Md Noh **Voltammetric determination of iodide in iodized table salt using cetyltrimethylammonium bromide as ion-pairing,** J Food Sci Technol, 2019, 56, 3846-3853. 8) Lah, Z. M. A., Ahmad, S.A.A., Zaini, M. S., Kamarudin, M. A **An Electrochemical Sandwich Immunosensor for the Detection of HER2 using Antibody-Conjugated PbS Quantum Dot as a**	

	label, Journal of Pharmaceutical and Biomedical Analysis, 2019, 9, 608-617. 9) Mohamed Azman, N. Z.; Zainal, P.N.S. and Alang Ahmad, S. A. **Enhancement the electrochemical conductivity of a modified reduced graphene oxide/calixarene screen-printed electrode using response surface methodology,** Plos One, 2020, 15(6): e0234148. 10) Rani, E., Mohshim, S.A., Yusof, N.H. et al**. Sensitive and selective detection of DNA fragments associated with Ganoderma boninense by DNA-nanoparticle conjugate hybridisation.** J. Mater. Sci. 55, 14965-14979 (2020). 11) Zaini, M. S; Liew, J. Y. C.; Alang Ahmad, S. A.; Mohmad, A. R. and Ahmad Kamarudin, M. **Quantum Confinement Effect and Photoenhancement of Photoluminescence of PbS and PbS/MnS Quantum Dots,** Appl. Sci, 2020, *10*(18), 6282 12) Zainal, P.N.S.; Alang Ahmad, S. A.; Rosly, Z. and Aziz, S.F.N.A., **Polycyclic Aromatic Hydrocarbons: Occurrence, Electroanalysis, Challenges, and Future Outlooks,** Critical Reviews in Analytical Chemistry, 2020 13) Zaini, M. S; Liew, J. Y. C.; Alang Ahmad, S. A.; Mohmad, A. R. and Ahmad Kamarudin, M. **Photoluminescence Investigation of Carrier Localization in Colloidal PbS and PbS/MnS Quantum Dots, ACS Omega, 2020,** 5, 48, 30956–30962 14) Mohd Azmi, U.Z., Yusof, N.A., Abdullah, J. *et al.* **Portable electrochemical immunosensor for detection of *Mycobacterium tuberculosis* secreted protein CFP10-ESAT6 in clinical sputum samples**. *Microchim Acta* **188,** 20 (2021) 15) P. N. S. Zainal, S. A. A. Ahmad, L. H. Ngee and I. Ling, **" Development of Electrochemical sensor Based on Thiolated Calixarene Functionalized Gold Nanoparticles for The Selective Recognition of Anthracene**," in *IEEE Sensors Journal*, doi: 10.1109/JSEN.2020.3038916 16) Rosly, N.Z.; Abdullah, A.H.; Ahmad Kamarudin,M.; Ashari, S.E.; Alang Ahmad, S.A. **Adsorption of Methylene Blue Dye by Calix[6]Arene-Modified Lead Sulphide (Pbs): Optimisation Using Response Surface Methodology**. Int. J. Environ. Res. Public Health 2021, 18, 397.	
Books/Monographs		

Chapter in book	1. Siti Fatimah Nur Abdul Aziz and Shahrul Ainliah Alang Ahmad *Emerging Themes in Fundamentals and Applied Sciences*, Chapter 6 Sensor Application, UPM **Derivatization of ferrocene on indium tin oxide (ITO) by CLICK reaction**, (2017) 90-100 2. Zur Mira Azizah @ Nor Haiza Lah, Shahrul Ainliah Alang Ahmad *Emerging Themes in Fundamentals and Applied Sciences*, Chapter 10 Sensor studies **An electrochemical immunosensor for detection of breast cancer (2018)** 128-136 3. Putri Nur Syafieqah binti Zainal and Shahrul Ainliah Alang Ahmad *Emerging Themes in Fundamentals and Applied Sciences*, Chapter 10 Sensor studies **Fabrication of calixarene/reduced graphene oxide nanocomposite (ERGO-C4) as an electrochemical sensor of naphthalene (2018)** 136-146	3