

CV



Dr. Nurul Akmal Bt Che Lah

Lecturer
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Personal Particulars

Age : 31 years
Date of Birth : 13 Dec 1985
Gender : Female
Marital Status : Married

Academic Qualifications

Highest Education

Level : Doctor of Philosophy (DPhil)
Field of Study : Advanced Materials (Inorganic Chemistry)
Major : Nanotechnology
University : University of Oxford, Oxford, UK
Located In : Oxford, UK

Second Highest Education

Level : Master's Science (MSc)
Field of Study : Advanced Materials
Major : Nanotechnology
University : University of Malaya, Kuala Lumpur, Malaysia
Located In : Kuala Lumpur, Malaysia.

Third Highest Education

Level : Bachelor's Degree (BEng)
Field of Study : Engineering (Materials)
Major : Mechanical
University : University of Malaya, Kuala Lumpur, Malaysia
Located In : Kuala Lumpur, Malaysia

Fourth Highest Education

Level : Matriculation
Field of Study : Physical Stream
Major : General Engineering
Institute : Pusat Asasi Sains University of Malaya, Kuala Lumpur, Malaysia
Located In : Kuala Lumpur, Malaysia

Brief Profile

Dr. Nurul A.C. Lah was born in Kelantan, Malaysia. She studied in Malaysia at the University of Malaya where she successfully completed her degree in a B.Eng (Hons) in Materials. As a scholar, she continued for another degree, in postgraduate studies at University of Malaya pursuing Master in Materials Science which was achieved in 2010. She received scholarship from the government of Saudi Arabia and pursuing her DPhil study in Advanced Materials (Nanotechnology) in 2011 at University of Oxford, United Kingdom. Her dissertation was successfully defended in February 2016 entitled "The Size-Induced Metal-Insulator Transition in Silver Particles". Mrs. Che Lah is a Lecturer in Materials Engineering at present, teaching materials science and materials engineering in undergraduate level at the Faculty of Mechanical Engineering, Universiti Malaysia Pahang, Pahang, Malaysia. She is a member of several professional body such as Board of Engineers Malaysia and UMP Automotive Excellent Centre.

Working Experiences / Appointment

1. July 2016 ~ present Lecturer, Faculty of Mechanical Engineering (FKM), University Malaysia Pahang, Pahang, Malaysia

2. Feb 2012 ~ Jun 2016 Fellowship Staff, Faculty of Mechanical Engineering (FKM), University Malaysia Pahang, Pahang, Malaysia
3. Aug 2008 ~ July 2011 Tutor, Department of Mechanical Engineering, University of Malaya, Kuala Lumpur, Malaysia

Expert Area

Nanotechnology, Materials Science, Advance Material, Smart Materials, Quality Management, Production Technology, and Occupational Safety & Health

Research Area / Research Interest

Nanotechnology, Advance Material Science, Smart Material, Quality Management

Professional Qualification / Membership / Affiliation / Experience

A) Conference Reviewer:

1. Advanced Materials Conference, AMC SIRIM 2016, Langkawi Malaysia

B) Membership of Professional Body

1. Graduate Engineer, Board of Engineer, Malaysia (BEM) – GE 69744 A

List of Publications

A) International Journal

1. **Lah, N.A.C.**, Johan, M.R., Facile Shape Control Synthesis and Optical Properties of Silver Nanoparticles Stabilized by DAXAD 19 Surfactant, *Applied Surface Science*, 257, 7494 – 7500 (2011)
2. **Lah, N.A.C.**, Johan, M.R., Optical and Thermodynamic Studies of Silver Nanoparticles Stabilized by Daxad 19 Surfactant, *International Journal of Materials Research*, 102, 340- 347 (2011)
3. Singho, N.D., Johan, M.R., **Lah, N.A.C.**, Ahmad, R., Enhancement of the Refractive Index of Silver Nanoparticles in Poly (Methyl Methacrylate), *International Journal of Research in Engineering and Technology*, 1, 231 – 234 (2012)
4. Singho, N.D., Johan, M.R., **Lah, N.A.C.**, Ahmad, R., FTIR Study on Silver – Poly (Methyl Methacrylate) Nanocomposite via *In-Situ* Polymerization Technique, *International Journal of Electrochemical Science*, 7, 5598 – 5603 (2012)
5. Singho, N.D., Johan, M.R., **Lah, N.A.C.**, Temperature Dependent Properties of Silver – Poly (Methyl Methacrylate) Nanocomposite Synthesized by *In-Situ* Technique, *Nanoscale Research Letter*, 9, 1- 6 (2014)

C) International and National Conference Papers

1. **Proceeding** in the 3rd International Conference on Bioinspired and Biobased Chemistry and Materials (15-17 October 2014) entitled 'Microwave Absorption and The Size-Induced Metal-Insulator Transition in Individual Colloidal Silver Particles' in Nice, France: page 156.
2. **Proceeding** in 2nd International Conference on Science and Technology, ICSTIE 2008 (12-13 December 2008) entitled 'Synthesis and characterization of silver nanoparticles in polyethylene glycol (PEG)' : page 982.
3. **Proceeding** in 2nd AUN/SEED- Net Regional Conference on Materials Engineering 2009 (19-20 November 2009) entitled 'Synthesis and UV-Vis Spectroscopic Study of Silver Nanoparticles Stabilized by Daxad 19' : page 12.
4. **Proceeding** in International Conference on Nanotechnology – Research and Commercialization, ICONT 2009 (14-17 December 2009) entitled ' Optical Studies on Gibbs Free Energy of Silver Nanoparticles stabilized by Daxad 19': page 45

D) Conference and Meeting Activities

1. **Participant** in *Pfizer Symposium*, University of Oxford, Oxford, United Kingdom (30th October 2014)
2. **Oral Presenter** in *2nd International Conference on Bioinspired and Biobased Chemistry and Materials*, Nice, France (15th – 17th October 2014)
3. **Participant** in *Prof. Dieter Fenske (MPLS Visiting Professor of Inorganic Chemistry) 'Nanosized Transition Metal Clusters. Synthesis, Structures and Properties'*, University of Oxford, Oxford, United Kingdom (8th August 2014)
4. **Poster Presenter** in *The 1st Scientific Symposium of the Islamic Development Bank Scholars Association – UK*, University of Cambridge, United Kingdom (22nd May 2014)
5. **Participant** in *Royal Society Discussion Meeting, 'The New Chemistry of the Elements'*, Royal Society London, United Kingdom (12th - 13th May 2014)
6. **Oral Presenter** in *One-Day Meeting On A Metal and Metal-Containing Cluster*, University of Oxford, Oxford, United Kingdom (1st April 2014)
7. **Oral Presenter** in *Inorganic Chemistry Graduate Symposium 2014*, University of Oxford, Oxford, United Kingdom (25th -27th March 2014)

8. **Poster Presenter** in 3rd KACST-OXFORD Petrochemical Forum 'New, Disruptive Science and Technologies for the Modern Petrochemical Industry', Wadham College, University of Oxford, Oxford, United Kingdom (12th -15th August 2013)

List of Research / Project

1. Synthesis, Characterisation and Device Integration Application of Silver Nanowires, RM 5,500.00 as Project Leader. UMP Internal Research Grant RDU161117.
2. Investigation on Performance and Emission of Biodiesel/methanol/water blends, RM 26,500.00 as Project Member. UMP Internal Research Grant RDU1603100.

Personal Strength

1. Creative and innovative
2. Strong research abilities and persistence
3. Dynamic team player
4. Sense of responsibility
5. Highly inquisitive
6. Excellent skills in communication and collaboration

Referees

1. **Prof. Peter Edwards FRS ML**
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3. **Madam Masniram Binti Mohd Fadzilah**
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