

## CURRICULUM VITAE

i. **Full Name:**

Nur Aimi Binti Jani



Personal details:

Senior Lecturer

School of Physics and Materials Studies

Faculty of Applied Sciences

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Address (Office): School of Physics and  
Materials, Faculty of Applied Sciences, Universiti  
Teknologi Mara, 40400 Shah Alam, Selangor,  
Malaysia

ii. **Academic  
Qualifications**

Degree: PhD

Completion Date: 2014 – 2018

Name of Institution: Universiti Malaya (UM)

Degree: MSc. Materials Engineering (Research mode)

Completion Date: 2007-2010

Name of Institution: Universiti Sains Malaysia (USM)

Degree: BSc. (Hons.) Physics

Completion Date: 2007-2010

Name of Institution: Universiti Teknologi MARA (UiTM)

iii. **Current  
Professional  
Membership**

Electron Microscopy Society Malaysia, (EMSM), Member,  
Since 2007

iv. **Current  
Teaching and  
Administrative  
Responsibilities**

Resource Person: MST 557

Title: Fundamentals of Electronic and Semiconductor

Date: September 2017

Resource Person: MST 453/451

Title: Introduction To Materials Science

Date: September 2018

Teaching Code: MST 451

Title: Introduction to Materials

Date: September 2017

Teaching Code: MST 644  
Title: Magnetic Materials  
Date: September 2018

Coordinator: FSG 661  
Title: Project II  
Date: September 2017

v. **Previous  
Employment**

2018-Now- Senior Lecturer  
School of Physics and Materials Studies  
Faculty of Applied Sciences  
UiTM Shah Alam

2014-2017- Researcher (PhD)  
Department of Physics  
Faculty of Science  
Universiti Malaya (UM)

2010-2014- Lecturer  
School of Physics and Materials  
Universiti Teknologi MARA (UiTM)

2007-2010- Researcher (MSc.)  
School of Minerals and Materials Engineering,  
Universiti Sains Malaysia (USM)

2007-2008- Research Officer (RO)  
School of Minerals and Materials Engineering,  
Universiti Sains Malaysia (USM)

vi. **Conference and  
Training**

25 September 2017- Presenter - Competition and Exhibition  
Invention, Innovation & Design Expo 2017, IIDEX2017

Nov. 2016- Oral Presenter – International Conference on  
Advanced Materials and Nanotechnology, ICAMN2016.

Oct. 2016- Oral Presenter – “Pertandingan Projek Penyelidikan  
Iovasi Nanoteknologi (PIN) pPeringkat Kebangsaan 2016”.

April 2014- Presenter - Competition and Exhibition Invention,  
Innovation & Design Expo 2014, IIDEX2014.

March 2013- Presenter - Competition and Exhibition Invention,

Innovation & Design Expo 2013, IIDEX2013.

Sep. 2012- Oral Presenter - 2012 IEEE Symposium on Business, Engineering and Industrial Applications, ISBEIA 2012.

July 2012- Oral Presenter - 8th International Materials Technology Conference and Exhibition (IMTCE 2012).

June 2011- Participant - Crystallographic & Structure Determination Workshop, UiTM.

Feb. 2011- Participant - Academic Conference, UiTM.

vii. **Research and Publications**

*Research Awards:*

Awarded Silver Medal in Competition and Exhibition Invention, Innovation & Design Expo 2017, IIDEX2017.

Awarded Gold Medal in Competition and Exhibition Invention, Innovation & Design Expo 2013, IIDEX2013.

Awarded Bronze Medal in Competition and Exhibition Invention, Innovation & Design Expo 2014, IIDEX2014.

Awarded 2nd Prize in National Competition of Innovative Nanotechnology, by Ministry of Science, Technology and Innovation 2016

*Research Grants:*

Lead Researcher: Excellent Fund, 2011-2012, RM10K

Lead Researcher: FRGS Grant, 2011-2013, RM126K

Member Researcher: Excellent Fund, 2012-2014, RM10K

Lead Researcher: RAGS Grant, 2012-2015, RM75K

Member Researcher: 100-IRMI/GOV 16/6/2 (007/2018), RM5K

*Research Publications:*

Daud, S. N. H., Haw, C. Y., Chiu, W. S., Aspanut, Z., **Jani, N. A.**, Khiew, P. S., Ali, A. M. (2017). 3D hyperbranched heterostructures of Ag nanocrystals-decorated ZnO nanopillars: controlled growth and characterization of the optical properties. CrystEngComm, 19(37), 5591-5603. doi:10.1039/C7CE01159H

**Jani, N. A.**, Haw, C. Y., Chiu, W. S., Rahman, S. A., Lim, Y.

C., Khiew, P. S., & Yaghoubi, A. (2017). Understanding the effect of plasmonic enhancement on photocatalytic activity of TiO<sub>2</sub> nanotube arrays. *Materials Characterization*, 128, 134-141. doi:<http://dx.doi.org/10.1016/j.matchar.2017.03.034>

Razuan, R., **Jani, N. A.**, Harun, M. K., & Talari, M. K. (2013). Microstructure and Hardness Properties Investigation of Ti and Nb Added FeNiAlCuCrTi<sub>x</sub>Nb<sub>y</sub> High Entropy Alloys. *Transactions of the Indian Institute of Metals*, 66(4), 309-312. doi:10.1007/s12666-013-0265-7

Usaili, Z., **Jani, N. A.**, & Abdullah, S. (2013). Morphological and Structural Study on Titania Nanotubes Formation by Difference Voltage. *Advanced Materials Research*, 701, 184-187. doi: 10.4028/www.scientific.net/AMR.701.184

Achoi, M. F., Mohd., N. A., **Jani, N. A.**, Rusop, M., & Abdullah, S. (2013). One-Dimensional TiO<sub>2</sub> Nanothorn-Like Structures Assisted TiO<sub>2</sub> Template for High Absorption Hydrophilic Self-Cleaning. *Advanced Materials Research*, 686, 18-27. doi: 10.4028/www.scientific.net/AMR.686.18

**Jani, N. A.**, Achoi, M. F., Mahat, M. M., Abdullah, S., Lockman, Z., & Mohd Noor, A. F. (2013). Surface and Structural Properties of TiO<sub>2</sub> Nanotubes Formation via Electrochemical Anodization. *Advanced Materials Research*, 686, 71-76. doi: 10.4028/www.scientific.net/AMR.686.71

Mahat, M. M., Kamarudin, M. S., Isa, J., Bonnia, N. N., & **Jani, N. A.** (2012). Azadirachta excelsa as green corrosion inhibitor for mild steel in acidic medium. Paper presented at the 2012 IEEE Symposium on Business, Engineering and Industrial Applications. 23-26 Sept. 2012.

viii. **Consultancy**

Reviewer Conference paper: CHUSER2012 and CHUSER2014

Co-supervisor: MSC. Student (UiTM), 2012-2015

Advisor: Kelab Karate Do Shoto Ryu (UiTM), 2013-2014

Supervisor: Undergraduate Student (Final Year Project), 2011-2014

Facillitator: Faculty of Applied Sciences, UiTM, 2011

Volunteer: Training of Trainer, UiTM Volunteer, 2013

- ix. **Community Service**
- 1 April 2018 – 31 Mac 2018- AJK Penegendalian Peperiksaan FSG.
  - 1 Sept 2017- 1 Sept2018- AJK Semakan Kurikulum Program AS230.
  - 2 Jan 2018 – completed- AJK Utama Sidang Editorial Buku Panduan FYP Edisi Ke-3 FSG
  - 1 Feb 2018- 31 Dis 2020- AJK Audit Dalam FSG
  - 2012-2015- Committee, Kelab Kebajikan FSG.
  - 2011-2014 – Committee, OBE FSG.
  - 2011-2014 – Committee, Time Table, Program MATECH, FSG
  - 2013- Committee, Misi Akademik, Pusat Pengajian Fizik dan Bahan.
  - 2013- Program Manager, Program Majlis Sua Raya UiTM 2013
  - 2013- Committee, Karnival Keusahawanan FSG2013 (Project of The Biggest Periodic Table).
  - 2012- Pensyarah Pengiring, Lawatan Akademik Pelajar ke Agensi Nuklear Malaysia.
  - 2012- Member, Kesatuan Kakitangan Akademik UiTM, MITASA.
  - 2011- Committee, Program Khidmat Masyarakat di Rumah Tunas Harapan Tengku Ampuan Rahimah, Kuala Selangor.
- x. **Other Relevant Information**
- Evaluation Panel: AS756 (Postgraduate-Pre-Viva)- 27 Apr 2018
  - Evaluation Panel: AS780 (Postgraduate-Pre-Viva)- 24 Mei 2018
  - Evaluation Panel: AS762 (Postgraduate-Defense Research Proposal)- 18 Julai 2018
  - Evaluation Panel: AS780 (Postgraduate Pre-Viva) - 2012
  - Evaluation Panel: AS780 (Postgraduate Pre-Viva) - 2013
  - Evaluation Panel: MST650 (Undergraduate FYP Thesis Presentation)

Evaluation Panel: MST 610 (Undergraduate FYP Proposal Defense Presentation)

Resource Person: MST 644 (Magnetic Materials) – 2012-2014

Resource Person: MST 451 (Introduction to Materials) – 2013-2014

Resource Person: MST 541 (Biomaterials) - 2012-2014

Teaching: PHY 406 (Basic Physics; Mechanics; Thermodynamics) - 2011-2013

Teaching: PHY 407 (Basic Physics: Electricity and Magnetism) - 2011-2013

**Field of expertise**

Advanced Materials, Nanostructured Materials (Novel functional nanomaterials synthesis using electrochemical approach), Semiconductor Materials (Nano engineering of highly photoresponse metal oxide semiconductor), Materials Characterization, Photo-Water Splitting.