CURRICULUM VITAE

Name: **MALEK ALI ABDO ANAGREH**

Date of Birth: 1 Feb 1977

Nationality: Jordanian ***Gender:*** Male

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Educational Background

2011	Ph.D. in Materials Engineering - University Science Malaysia (USM) Malaysia. Major: Nanotechnology.
2007	M.Sc. in Materials Engineering - University Science Malaysia (USM).
2000	B.Sc. in Materials Science- University of Technology, Iraq.

Positions Held

- ***Associate Professor***, Aircraft Maintenance Department, Amman Arab University, Jordan February 2021 – Present.

- ***Associate Professor***, Department of Mechanical Engineering, University of Tabuk, Tabuk, Saudi Arabia,12th of February 2018 – February2021.
- ***Assistant Professor***, Department of Mechanical Engineering, University of Tabuk, Tabuk, Saudi Arabia, 12th of September 2012 - 12th of February 2018.
- ***Lecturer,*** Multimedia University (MMU), Melaka, Malaysia, 1st of March 2011 - 29th of august 2012.
- ***Graduate Assistant (Teaching) and Research Assistant,*** University Sains Malaysia (USM), Pinang, Malaysia,July2007 to April 2010.
- ***Ministry of Education of Jordan*****,** August 2001-May 2006.

Publications

International Journals

1- **Malek Ali**, (2020) Review of Stir Casting Technique and Technical Challenges for Ceramic Reinforcement Particulate and Aluminium Matrix Composite (accepted)

2- Abderraouf GHERISSI, **Malek Ali**, (2019) Superficial hardening improvement of nano and micro composite Al /TiC. Journal of Silicate Based and Composite Materials, Vol. 72, No. 1, 25–29. p.

3- **Malek Ali**, Abderraouf GHERISSI(2019) Synthesis and characterization of Al-SiO_2 composites. Journal of Ceramic Processing Research 20(3):259-263.

4- **Malek Ali**, Abderraouf GHERISSI (2017) Synthesis and Characterization of the Composite Material PVA/Chitosan/5% Sorbitol with Different Ratio of Chitosan. International Journal of Mechanical & Mechatronics Engineering , Vol:17 No:02.

5- **Malek Ali**, (2016) Synthesis and Study the Effect of HNTs on Composite Material. International Journal of Materials and Metallurgical Engineering Vol:10, No:2, 2016

6- **Malek Ali,** (2016) Synthesis and Characterization of Epoxy Matrix Composites Reinforced With Various Ratios of TiC JJ. M.I. Eng., Vol. 10 Number 4, pp 231-237.

7- **Malek Ali,** Balakumeren Suppiah, Zaid Muayaduldeen, (2016) Preparation and Corrosion Behavior of Bronze -40%w Composite. J. M.I. Eng., Vol. 10 Number 2, pp 141-147.

8- **Malek Ali**, and Zaid Muayaduldeen (2015) Effect of Milling Duration on powder characterization of (TiO_2, and graphite). Journal of Ceramic Processing Research,Vol. 16, No. 5, pp. 1~5.

9- **MalekAli**, Samer falih, (2014) Synthesis and Characterization of Aluminum Composites Materials Reinforced with TiC Nano- Particles. Jordan Journal of Mechanical and Industrial Engineering, Volu. 8 No. 5, pp. 244-250.

10- **Malek Ali** (2014) Transformation and powder Characteristics of TiO_2 during high energy milling. Journal of Ceramic Processing Research, Vol15, No. 5, pp. 290~293.

11- **Malek Ali**, Ali Samer Muhsan, Projjal Basu, and Faiz Ahmad1 (2013) Developments of Al-12Si Alloys by Reinforcing TiC and TiN Particles. Journal of Engineering Mechanics 10.1061/(ASCE)EM.1943-7889.0000743

12- **Malek Ali**, Projjal, and Marwa Liwa (2013) Effect of Mo-Si molar ratio on the Synthesis of MoSi2 through Mechanical Alloying. Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry. DOI:10.1080/15533174.2012.762783

13- Souiyah Miloud, **Malek Ali** (2012) Finite Element Model of Crack Growth under Mixed Mode Loading. International Journal of Materials Engineering, Vol.2(5), pp 67-74.

14- Basem Abu Ziend, **Malek Ali**, M. I. Fadhel, Souiyah M. (2012)Design and develop a nondestructive infrared spectroscopy instrument for assessment of mango (mangiferaindica) quality. Journal of Food Science and Technology, DOI 10.1007/s13197-012-0880-z.

15- **Malek Ali**, Marwa Liwa (2012) Modification of parameters in mechanochemical synthesis to obtain <alpha>- and <beta>-molybdenum disilicide. Advanced Powder Technology Vol. 24, pp183–189.(IF = 1.6).

16- **Malek Ali**, Projjal Basu, Marwa liwa, M. I. Fadhel, Souiyah M., and Basem Abu Ziend (2012) Comparison between the properties of Al-TiC and Al (TiC+Fe3C+Fe2Ti+Fe) composites. Arabian Journal for Science and Engineering DOI: 10.1007/s13369-012-0480-2.

17- **Malek Ali**, and Projjal Basu (2010) Development of an Alternate Route Based on Mechanochemistry Towards the Synthesis of Nanostructured TiC. ISIJ International Vol.51(2011),No.4.

18- **MalekAli**, and Projjal Basu (2010) Mechanochemical Synthesis of Nanostructured Titanium Carbide from TiO_2 Powders. J. Alloys and Compounds. Vol. 500, pp 220–223. (IF = 2.135).

19- **Malek Ali**, and Projjal Basu (2010) Mechanochemical synthesis of nanostructured titanium carbide from industrial Fe–Ti. J. Alloys and Compounds, Vol. 491, pp- 581–583. (IF = 2.135).

International conferences

1- **Malek Ali** (2016)Synthesis and Study the Effect of HNTs on PVA/Chitosan Composite Material, 18th International Conference on Composite Engineering and Technology, Dubai, UAE 25-26 February 2016.

2- Basem Abu Izneid, **Malek Ali** Ibrahim sukar, and Miloud Souiyah (2012) Development of Wireless Bluetooth Heart Rate Remote Monitoring System, IET International Conference on Wireless Communications and Applications ICWCA Kuala Lumpur, Malaysia, 8 - 10 October 2012.

3- **Malek Ali**, M. I. Fadhel, M.A. Alghoul and K. Sopian (2012) Developments of Al-12Si Alloys by Reinforcing TiN Particles, 6th WSEAS International Conference on Renewable EnergySources (RES '12) Portugal, July 1-3, 2012,

4- **Malek Ali**, M.I. Fadhel, M.A. Alghoul and K. Sopian (2012) Drying Kinetics of Chilli Pepper ina force Convection Indirect Solar Drying, 6th WSEAS International Conference on Renewable Energy Sources (RES '12) Portugal, July 1-3, 2012,

5- Basem Abu Izneid , Miloud Souiyah., M.I.Fadhel, and **Malek Ali** (2012) Remote Assessment of Fruit quality Using impedance Spectrometry and Fiber Optic Technique. The 3rd International Biotechnology and Biodiversity Conference & Exhibition ,JOHOR, Malaysia, Jun 06-09, 2012.

6- **Malek Ali**, M. I. Fadhel, M. A. Alghoul and K. Sopian (2012) Synthesis and Characterizationof Aluminum Matrix Composites Reinforced with Various Ratio of TiC for Light Devices. International Conference on Environment, Economics, Energy, Devices, Systems, Communications, Computers, Mathematics (IAASAT),Saint Malo& Mont Saint- Michel, France, April 2-4, 2012.

7- **Malek Ali**, Projjal Basu and Z. Hussain (2009) Effects of process parameters on the mechanochemical synthesis of titanium carbide from alternative sources of raw materials. 4th International Conference on Recent Advances in Materials, Minerals& Environment and 2th Asian Symposium on Materials & Processing (RAMM&ASMP 09). 1st -3thJune 2009. Penang, Malaysia.

8- **Malek Ali**, and Projjal Basu (2008) Synthesis of nanostructured titanium carbide from titanium oxide and ferro-titanium through mechanical activation.VI International Conference on Mechanochemistry and Mechanical Alloying (INCOME2008), 1st-4th December 2008, Jamshedpur, India.

9- **Malek Ali**, Projjal Basu and Z. Hussain (2008) Synthesis of titanium carbide from titanium oxide through high energy ball milling. 6th International Materials Technology Conference and Exhibition (IMTCE 2008). 24th-27th August 2008. Kuala Lumpur, Malaysia.

10- **Malek Ali** (2008) Replacement of Pb in finishing applications by Cu-Sn-W Composite Prepared by Mechanical Alloying. International Conference and Exibition on Composite Materials and Nano-structure (IC2MS'08), 5th–7th August, 2008, legacy Hotel, Melaka.

Scientific Publishing in the local Jordanian newspapers

1. What is Titanium Carbide, Alsosana Newspaper: https://www.assawsana.com/portal/pages.php?newsid=199111
2. Briefly learn about some smart materials, Alsosana Newspaper:https://www.assawsana.com/portal/pages.php?newsid=198374
3. Where to with Material Engineering, Ammon News: https://www.ammonnews.net/article/160377
4. What are biomaterials?, Ammon News: https://www.ammonnews.net/article/162519
5. Metals cancer, Alsosana Newspaper: https://www.assawsana.com/portal/pages.php?newsid=200945

Awards

Sanggar Sanjung**, (Hall of Fame) Award** 2009, Universiti Sains Malaysia, Publication Category.

Funding

- Financial support from the Deanship of Scientific Research (DSR), University of Tabuk, Tabuk, Saudi Arabia, under grant no.S-1438-0254.
- Financial support from the Deanship of Scientific Research (DSR), University of Tabuk, Tabuk, Saudi Arabia, under grant no.S-1437-0033.
- Financial support from the Deanship of Scientific Research (DSR), University of Tabuk, Tabuk, Saudi Arabia, under grant no.S-1436-0019.
- Financial support from the Deanship of Scientific Research (DSR), University of Tabuk, Tabuk, Saudi Arabia, under grant no.S-1435-0018.
- Financial support from Fundamental Research Grant Scheme (FRGS), Malaysia, Development of solar assisted chemical heat pump dryer for agriculture produces.
- Financial support from Telecom Malaysia. Development of Photovoltaic/thermal solar collector (PV/T) system.
- Financial support from Fundamental Research Grant Scheme (FRGS), Malaysia, Grant No. 203.PBAHAN.6071127.

- ***Workshops and Training Courses***
- ABET Accreditation, which was held on 24-25 December,2016, organized by University of Tabuk College of Engineering.
- Engineering Professional Skills Assessment (EPSA) which was held on 30-31 March,2016, organized by University of Tabuk College of Engineering.
- Basic Milling and Lathe Operation which was held on 16-18 March,2011, organized by Multimedia University Faculty of Engineering and technology.
- Overview of synthesis, fabrication& characterization of materials with theory of inventive problem solving (TRIZ) which was held on 7-8thOctober2009 organized by school of materials engineering.
- (Interpersonal skills) which was held on 11August2009 organized by school of materials engineering.
- (Advanced materials characterization techniques) this was held on 6-7thAugust 2009 organized by school of materials engineering.
- (Stress Management) held on 25 noveber2008 organized by school of Civil engineering.
- (Electron Backscatter Diffraction in scanning Electron Microscope) which was held on 18-19 June 2008 organized by school of materials engineering.
- (Auto lab Electrochemical Impedance Spectroscopy) which was held on 28May2008 organized by school of materials engineering.
- Short course on (Production of high-quality steels through secondary process/refining) which was held on 12-13 May, 2008 organized by school of materials engineering.
- (Fundamental on Thermal Analysis) which was held on 30 April2008organized by school of materials engineering.
- (Occupational safety and health) which was held on 16 February 2008.
- The international computer driving license (ICDL) from 20/7/2005 to20/12/2005.serial number UN040133665.
- German language course from 27/11/2000 to 31/12/2000 organized by AL Mustansiriya Institute.

Teaching Experiences

I have taught many courses at all levels as the following:

1. Engineering drawing
2. Dynamics
3. Manufacturing processes
4. Materials Engineering
5. Wokshop technology
6. Materials Science
7. Bio-Materials
8. Mechanics of Materials
9. Composites
10. Corrosion Engineering
11. Selection materials for design

Research experience in the following areas:

1. Synthesis Advanced Nanomaterials.
2. Metallurgy, Nano. Composites (Polymer, Ceramics, Metals), Corrosion and Energy.
3. Manufacturing/Fabrication of Metallic.

Professional Memberships and Academic Committees

- (ASME) American Society of Mechanical Engineers
- (JEA) Jordan Engineers Association