Anas M. Atieh

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Academic Records

- **Assistant Professor , Industrial Engineering Department**
German Jordanian University Sep 2014 – Now
- **PhD in Mechanical and Manufacturing Engineering**
University of Calgary, Calgary, Alberta, Canada Jan 2011 – Dec 2013
- **M.Sc. in Industrial Engineering/Design and Manufacturing**
University of Jordan, Amman, Jordan Jan 2008 – Jun 2010
- **B.Sc. in Industrial Engineering**
University of Jordan, Amman, Jordan Jan 2002 – Jan 2008

Research Interests

- Applications of nanotechnology
- Materials characterization, welding and engineering
- Manufacturing process
- Biomechanics

Research Experience

- Ca^{+} signaling and cell deformation in early osteoarthritis model.
- Manufacturing and Materials Engineering/Joining Technology
Diffusion Bonding of Titanium alloy (Ti-6Al-4V) to Magnesium alloy (Mg-AZ31)
- Manufacturing/Grain refinement of materials
Effect of addition of Molybdenum (Mo) on the Mechanical Behavior and Formability of Commercially Pure Aluminum in Equal Angular Channel Pressing

Leadership Experience

- Vice president (VP), Mechanical Engineering graduate student association (MEGSA) / UofC.
- Executive member (EM), Jordan industrial engineering association (JIEA).
- Global student advisor (GSA), Mitacs Global-link /Canada.

Awards, Funds and Honors

- **Open Access Authors Fund,** University of Calgary, 2014.
- **University Research Grants Committee (URGC) award,** Office of the Vice-President (Research) University of Calgary, Alberta, 2012.
- **Bill Timmons Leadership award**, University of Calgary, Alberta, 2012.
- **Schulich Student Activities Fund (SSAF),** Schulich School of Engineering, University of Calgary, Alberta, 2013.
- **GJU PhD Scholarship,** University of Calgary, Alberta, 2011 – 2013
- **GSA Bursary,** Graduate Students' Association, University of Calgary, Alberta, 2013.

Journal Articles

1. ***Anas M. Atieh***, Tahir I. Khan (2013) "Investigating the process parameters on the joint formation of semi-solid TLP bonding of Ti-6Al-4V to Mg-AZ31", Journal of Materials Science, October 2013, Volume 48, Issue 19, pp 6737-6745, DOI:10.1007/s10853-013-7475-6.
2. ***Anas M. Atieh***, Tahir I. Khan (2014) "Transient liquid phase (TLP) brazing of Mg-AZ31 and Ti-6Al-4V using Ni and Cu sandwich foils", Journal of Science and Technology of Welding and Joining, January 2014, Volume 19, Issue 4, pp 333-342, DOI:10.1179/1362171814Y.0000000196.

   Received UofC award (USD$ 2000) to be published as open access
3. ***Anas M. Atieh***, Tahir I. Khan (2014) "Effect of Interlayer Thickness on Joint Formation between Ti-6Al-4V and Mg-AZ31 Alloys", Journal of Materials Engineering and Performance, DOI:10.1007/s11665-014-1179-1.
4. ***Anas M. Atieh***, Tahir I. Khan (2014) "Application of Ni and Cu nano-particles in transient liquid phase (TLP) bonding of Ti-6Al-4V and Mg-AZ31 alloys", Journal of Materials Science, DOI: 10.1007/s10853-014-8473-z.
5. ***Anas M. Atieh***, Tahir I. Khan (2014) "Effect of interlayer configurations on joint formation in TLP bonding of Ti-6Al-4V to Mg-AZ31", IOP Conf. Ser.: Mater. Sci. Eng., June 2014, Volume 60-012036, DOI:10.1088/1757-899X/60/1/012036
6. Adnan I. Zaid, ***Anas M. Atieh*** (2014) "Effect of molybdenum addition to aluminium grain refined by titanium on its metallurgical and mechanical characteristics in the as cast condition and after pressing by the equal angular channel process", IOP Conf. Ser.: Mater. Sci. Eng., June 2014, Volume 60-012052, DOI:10.1088/1757-899X/60/1/012052.
7. ***Anas M. Atieh***, Tahir I. Khan (2014) "TLP Bonding of Ti-6Al-4V and Mg-AZ31 alloys using pure Ni electro-deposited coats", Journal of Materials Processing Technology, Volume 214, Issue 12, December 2014, Pages 3158–3168 DOI10.1016/j.jmatprotec.2014.07.028.

Refereed Conference Proceedings and presentations

8. ***Anas M. Atieh***, Tahir I. Khan (2013) "Effect of bonding pressure on joint formation by diffusion bonding of Ti-6Al-4V and Mg-AZ31". Proceedings of the ASME 2013 International Mechanical Engineering Congress & Exposition (IMECE2013), San Diego, California, USA, November 15-21, 2013. Paper No. IMECE2013-65131, Volume 2B: Advanced Manufacturing, pp. V02BT02A018; 5 pages, DOI: 10.1115/IMECE2013-65131, ISBN: 978-0-7918-5619-2.
9. ***Anas M. Atieh***, Tahir I. Khan (2013) "Transient liquid phase bonding of Ti-6Al-4V and Mg-AZ31 using eutectic forming interlayers". 24th Canadian Congress of Applied Mechanics, Saskatoon, Canada, June 2-6, 2013.
10. Adnan I. O. Zaid, ***Anas M. Atieh*** (2013)"Effect of addition of molybdenum (Mo) on the mechanical behavior and formability of commercially pure aluminum in equal channel angular pressing" 24th Canadian Congress of Applied Mechanics, Saskatoon, Canada, June 2-6, 2013.
11. Adnan I. O. Zaid, ***Anas M. Atieh*** (2013) "Effect of molybdenum addition to aluminum grain refined by titanium on its metallurgical and mechanical characteristics in the as cast condition and after pressing by the equal angular channel process". 13th international symposium on advanced materials, Islamabad, Pakistan, 23 - 27 September 2013.

12. ***Anas M. Atieh***, Tahir I. Khan (2013) "Effect of interlayer configurations on joint formation in TLP bonding of Ti-6Al-4V to Mg-AZ31". 13th international symposium on advanced materials, Islamabad, Pakistan, 23 - 27 September 2013.
13. ***Anas M. Atieh***, Mona Elbatanouny, Tahir I. Khan (2012)"Diffusion Bonding of Ti 6Al 4V and AZ31 Using Ni Foil " Proceedings of Materials Science & Technology 2012 Conference, Pittsburgh, Pennsylvania, USA, October 07-11, 2012, ISBN: 9781622766536
14. ***Anas M. Atieh***, Tahir I. Khan (2013) "The Joining of a Titanium alloy to a Magnesium alloy using Diffusion Bonding Technology". COMPDYN: Manufacturing, 4th Annual Mechanical Engineering Graduate Conference, Calgary, Alberta, Canada, May 27, 2013.

Reviewer for the following journals:

1. Transactions of Nonferrous Metals Society of China
2. Metallurgical and Materials Transactions A, Springer
3. Metallurgical and Materials Transactions B, Springer

Work Experience

Teaching Experience

- **Teaching Assistant** **Jan. 2011- Sep. 2013**

Department of Mechanical & Manufacturing Engineering – University of Calgary

- Tutorial Instructor for CES software
- Materials Aspects of Oil and Gas Production, ENPE 563
- Manufacturing and Production Processes, ENMF 417

- **Teaching and Research Assistant** **Jan. 2010- Jun. 2010**

Department of Industrial Engineering, School of applied technical sciences – GJU

- In charge of designing new experiments for manufacturing processes lab
- Undergraduate Lab Instructor for Materials and manufacturing lab

- **Teaching and Research Assistant** **Jan. 2008- Jan. 2010**

Department of Industrial Engineering – The University of Jordan

- Part time engineer, assisting in teaching the manufacturing processes course; mechanical behavior, metal casting, wear of metals, and extrusion of metals.

Industrial Experience

- **Project Engineer/Procurements team leader** , Zain Jordan, June 2008 –Jan 2011
- **Materials Engineer**, DAD group, Amman, Jordan, Nov 2007 – May 2008
- **Internship Program**, United States of America, 2005 - 2006
  16 months attending work and travel program (living and working) in USA.

Training and Certifications

- Teaching in Canadian Class room certificate (TCC): UofC 2011.
- English as a second language; IELTS: 7/9, TOEFL 90.
- Projects Management Professional (PMP): Zain / Method 2010.
- Certified Internal QMS Auditor Training course (Quality Management Systems) : Zain 2009
- Certified associate in Projects Management (CAPM): Zain / Method 2008.