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- **Academic**

**PhD**, 1993 - 1997

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**BSc**, 1978 - 1982

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**University of Wisconsin, Milwaukee, Wisconsin, USA**

- **Research Contributions**

- 1- Abdulhamed M. Hwas and Ali M. Hatab, “*Effects of Design Parameters of Wind Turbine on Airfoil Coefficients Using Grey-Based Taguchi Method*”, Journal of Multidisciplinary Engineering Science and Technology (JMEST), vol. 7 (12), (2020), p. 13103.
- 2- Abdulhamed M. Hwas and Ali M. Hatab, “*Optimizing Extension and Retraction Velocities for Double Acting Cylinder Using Taguchi Method*”, Journal of Multidisciplinary Engineering Science and Technology (JMEST), vol. 5 (11), (2018), p. 9022.
- 3- Ali M. Hatab, Ahmad Falahati, Anette Danninger, “*Effects of Multi-Stretching and Re-Aging Processes on Yield Strength of 6061-T6 Aluminum Alloy*”, IOC 48<sup>th</sup> International October Conference on Mining and Metallurgy, ed. Nada Strbac, Bor, Serbia, October (2016), p.49.
- 4- Samah K. Alghoul and Ali M. Hatab, “*Building Energy Efficiency: Optimization of Building Envelope Using Grey – based Taguchil*”, Journal of Multidisciplinary Engineering Science and Technology (JMEST), vol. 3 (12), (2016), p. 6192.
- 5- Samah K. Alghoul and Ali M. Hatab, “*Optimizing Heating and Cooling Consumption for Lightweight Concrete Building Wall*”, IOC 48<sup>th</sup> International October Conference on Mining and Metallurgy, ed. Nada Strbac, Bor, Serbia, October (2016), p.45. .
- 6- Ali M. Hatab, Ahmad Falahati, Anette Danninger, “*Application of Grey Relational Grade in Optimizing Tensile Properties of 6061 Aluminum Alloy*” 24<sup>th</sup> International Conference on Metallurgy and Materials, Brno, Czech Republic, EU, May (2015), ZV2, DVD/reports/4096.pdf, Tanger Ltd., Ostrava.
- 7- Ali M. Hatab, Ahmad Falahati, Anette Danninger, “*Ductility Improvement of Al-Mg-Si Aluminum Alloy By Applying Taguchi Design of Experiments*” IOC 46<sup>th</sup> International October Conference on

- Mining and Metallurgy, ed. Nada Strbac, Dragana Zivkovic, Svetlana Nestorovic, Bor, Serbia, October (2014), p.406.
- 8- Ali M. Hatab, Ahmad Falahati, Anette Danninger, “*Contribution of Individual Hardening Process Parameters on Mechanical Properties of 6061 Aluminum Alloy - Taguchi Approach*” 23<sup>rd</sup> International Conference on Metallurgy and Materials, Brno, Czech Republic, EU, May (2014), DVD/reports/2616.pdf, Tanger Ltd., Ostrava.
  - 9- Ali M. Hatab, AbdulBaset A. Ferfer, Iman M. Nima, “*Trituration Time Effects: XRD and Microhardness Studies of Ag-Cu-Sn-Hg Metallic Dental Alloy*” IOC 45<sup>th</sup> International October Conference on Mining and Metallurgy, ed. Nada Strbac, Dragana Zivkovic, Svetlana Nestorovic, Bor, Serbia, October (2013), p.778.
  - 10- Ali Hatab, Hassan Zaid, Abdulwahab Ibrahim, “*Individual Effects of RRA Design Process Parameters on Properties of 7079 Aluminum Alloy – Grey Based Taguchi*” IOC 45<sup>th</sup> International October Conference on Mining and Metallurgy, ed. Nada Strbac, Dragana Zivkovic, Svetlana Nestorovic, Bor, Serbia, October (2013), p.741.
  - 11- Ali M Hatab and Zayad M. Saad, “*The Effect of Mixing Process Variables on Microhardness of Phases Formed in the Ag-Sn-Cu-Hg Dental Amalgam*” IOC 44<sup>th</sup> International October Conference on Mining and Metallurgy, ed. Ana Kostov and Milenko Ljubojev, Bor, Serbia, October (2012), p.437.
  - 12- Ali M. Hatab, Fouad B.Abudaia and Hassan Ali Saadawi “*The Use of L<sub>9</sub> Orthogonal Array with Grey Relational in Optimizing of Friction Welding Parameters of AlCuBiPb Alloy*”, David Publishing, Journal of Materials Science and Engineering A2 (2012), p. 58.
  - 13- Hassan R. Zaid, Ali M. Hatab, Abdulwahab M.A. Ibrahim, “*Properties Enhancement of Al-Zn-Mg Alloy by Retrogression and Re-aging Heat Treatment*”. Journal of Mining and Metallurgy 47 (1) B (2011), p. 31.
  - 14- Ali M. Hatab and Hassan R. Zaid, “*Influence of Cutting Parameters in Turning on Multi-Response of C45 Carbon Steel Using Grey-Based Taguchi*”. 42<sup>nd</sup> International October Conference on Mining and Metallurgy, ed. Svetlana Ivanov and Dragana Zivkovic, Kladovo, Serbia, October (2010), p. 320.
  - 15- Ali M. Hatab and Hassan R. Zaid, “*Optimization of Cutting Parameters for Surface Roughness in Turning of 1045 Carbon Steel Using Taguchi Method*”. 41<sup>th</sup> International October Conference on Mining and Metallurgy, ed. Molenko Ljubojev and Ana Kostov, Kladovo, Serbia, October (2009), p. 601.
  - 16- Hassan R. Zaid, Ali M. Hatab, Abdulwahab M.A. Ibrahim, “*Properties Enhancement of Al-Zn-Mg Alloy by Retrogression and Re-aging Heat Treatment*”. 41<sup>st</sup> International October Conference on Mining and Metallurgy, ed. Molenko Ljubojev and Ana Kostov, Kladovo, Serbia, October (2009), p. 557.
  - 17- Ali M Hatab, Hassa R. Zaid, “*Optimizing Cutting Parameters for Surface Roughness in Turning of Commercial Aluminum (1100-H18 Type) Alloy Using Taguchi Method*”, 40<sup>th</sup> International October Conference on Mining and Metallurgy, ed. Rodoljub Stanojlovic, Jovica Sokolovic, Sokbanja, Serbia, (October 2008), p. 515.

- 18- Ali M. Hatab, Zayed M. Shgaf and Muftah E.M. Zorgani, , **“Precipitation Kinetics of The Cu-Ni-Fe (C70600-Type) Alloy”**, The Fifth Arab Congress on Materials Science (ACMS-V), Gabes, Tunisiai, Oct., (2007), p. 200.
- 19- Ali M. Hatab and Abudulbaset A. Frefer, **“Age Hardening Behavior of Aluminum Alloy”** Journal of Basic and Applied Sciences, (Tripoli, Libya), vol. 18 issue No. 2, (2008), p.116.
- 20- Abdulwahab M.A, Ali M. Hatab, Omran Alshogbi, **“Improving Precipitation Hardening of A356-T6 Sand Cast Alloy By Retrogression and Re-aging Heat Treatment Processes”** 6<sup>th</sup> Arab Foundry Symposium, ARABCAST 2006, The Egyptian Foundrymen’s Society, Sharm El-Sheikh, Egypt, Nov, (2006), p.182.
- 21- Abdulbaset A. Frefer, Ali M. Hatab, **“Corrosion Behavior of The 8090-T851 Aluminum Alloy”**, Faculty of Engineering, University of Tripoli, Libya, Journal of Engineering Research , Issue 6, September (2006), p. 10.
- 22- Ali M. Hatab, **“Effect of Beryllium Addition on Lattice Parameters of Al( $\alpha$ ) and Mg<sub>2</sub>Si Dispersion Phase in The Al-13%Mg<sub>2</sub>Si Casting Alloy”**, Faculty of Engineering, University of Tripoli, Libya, Journal of Engineering Research, Issue 5, March (2006), p. 37.
- 23- A. Hatab and W.V. Youdelis, **“Be-enhanced Aging of Al-Mg-Si Alloys: Nucleation Thermodynamics and Kinetics”**, Light Metals 1998, M. Sahoo and C. Fradet, Eds., The Metallurgical Society of CIK Calgary, Alberta, Canada, Aug. (1998), p. 345.
- 24- A. Hatab, J.Makrygiamiis and W.V. Youdelis, **“Aging Behavior of an Al-Mg-Li Casting Alloy”**, Light Metals, CM. Bickert and R.I.L. Guthrie, Eds, The Metallurgical Society of CIM, Sudbury, Ontario, Canada, Aug. (1997), p. 529.
- 25- A. Hatab, W. Yang and W.V. Youdelis, **“Effect of Be on Defect Structure and Formation of  $\beta'$  and  $\beta$  Precipitate in Al-0.7%Mg-0.4%Si Alloy”**, Metals, M.Avedesian, R. Guilbault, and D.Ksinsik, Eds, The Metallurgical Society of CIM, Montreal, Canada, Aug. (1996), p. 247.
- 26- A. Hatab and W.V. Youdelis, **“Precipitation Rates Studies in Al-0.7%Mg0.4%Si Alloy, Equivalence of Hardness and Resistivity Techniques”**, Recent Metallurgical Advances in Light Metals Industries, S.MacEwen and T.P. Gilardeau, Eds, The Metallurgical Society of CIM, Vancouver, B.C., Canada, Aug. (1995), p. 453.
- 27- A. Hatab and W.V. Youdelis, **“Effect Be on the Aging Behavior and Precipitation Kinetics of Al-0.7%Mg-0.4%Si Alloy”**, Recent Developments in Light Metals, M. Gibert, P. Termblay and E. Ozberk, Eds, The Metallurgical Society of CIM, Toronto, Ontario, Canada, Aug. (1994), p. 269.

- **Mater (MSc) Thesis Supervision**
  - ▣ ***Study The Effects Of Heat Input On Microstructure And Impact Toughness Of Welded Aluminum Cast Alloys***, Department of Mechanical and Industrial Engineering University of Tripoli, Tripoli, Libya, Fall 2019.
  - ▣ ***A Study of the Influence of Trituration Time on Phases and Properties for Two High Copper Amalgams***, Department of Mechanical and Industrial Engineering University of Tripoli, Tripoli, Libya, Spring 2012.
  - ▣ ***Seamless Copper-Nickel-Iron Alloys Tubes: A study of Aging and Spinodal Hardening Behavior***, Mechanical Technology Branch Cooperation with Faculty of Engineering, Al-Fateh University, Tripoli, Libya, Fall 2006.