

Publications (Research journal and conference papers):

1. **Ehab El-Danaf**, Megumi Kawasaki, Magdy El-Rayes, Muneer Baig, Terence G Langdon, "Mechanical Properties and Microstructure Evolution of an Aluminum 6082 Alloy Processed by HPT" **2014 TMS Annual Meeting & Exhibition, 16-20-Feb. 2014**
2. Magdy El Rayes; **Ehab El-Danaf**; Abdulhakim Almajid, "Ultrasonic Non-destructive Characterization of Power Plant Steel" **2014 TMS Annual Meeting & Exhibition, 16-20-Feb. 2014**
3. Baig, M., **El-Danaf, E.**, Mohammad, J.A. Thermo-mechanical responses of an aluminum alloy processed by equal channel angular pressing, *Materials and Design*, Article in Press, **2014**.
4. Al Jabbari, Y.S., Koutsoukis, T., Barmpagadaki, X., **El-Danaf, E.**, Fournelle, R.A., Zinelis, S. . "Effect of Nd:YAG laser parameters on the penetration depth of a representative Ni-Cr dental casting alloy" *Lasers in Medical Science*, Article in Press, **2013**.
5. **El-Danaf, E.A.**, Soliman, M.S., Almajid, A.A., Khalil, K.A., "Mechanical characterization of cryomilled Al powder consolidated by high-frequency induction heat sintering" *Advances in Materials Science and Engineering* 2013 , art. no. 397351, **2013**
6. **Ehab A. El-Danaf** and Muneer Baig, "High temperature deformation characteristics of equal channel angular pressed AA6082-T6" *Materials Science and Engineering A* 565 , pp. 301-307 , **2013**.
7. Sherif, E.-S.M., Soliman, M.S., **El-Danaf, E.A.**, Almajid, A.A. , "Effect of equal-channel angular pressing passes on the corrosion behavior of 1050 aluminum alloy in natural seawater" *International Journal of Electrochemical Science* Volume 8, Issue 1, , Pages 1103-1116, January **2013**.
8. AAbdulsatter, MA, **El-Danaf EA**, Waluyo NS, Wagner L, Sever plastic deformation of commercial purity aluminum by rotary swaging: Microstructure evolution and mechanical properties. *Mat Sci Eng A*, 565, 351-358, **2013**.
9. **Ehab A. El-Danaf**, Magdy El-Rayes, "Microstructure and Mechanical Properties of Friction Stir Welded 6082 AA in As Welded and Post Weld Heat Treated Conditions" *Journal Materials and Design*,46, 561-572 (**2013**).
10. Y.S. Al Jabbari, X. Barbagadaki, K.A. Al Wazzan, **E.A. El-Danaf**, G. Eliades , S. Zinelis, "Shear bond strength and characterization of interfaces between electroformed gold substrates and porcelain" *Journal Materials Chemistry and Physics* , 137 (3), 825-833 (**2013**).
11. **Ehab El-Danaf**, Baig M. Alshalfan W AlMojil, Alshahrani S., [Mechanical, microstructure and texture characterization of API X65 steel](#), *Materials & Design* 47, 529-538, **2013**.
12. Khalil Abdelrazek Khalil, Abdulhakim A. Almajid, **Ehab A. El-Danaf**, Magdy M. El Rayes, El-Sayed M. Sherif, " Direct Fabrication of Yttrium Aluminium Garnet Nanofibers by Electrospinning" *Int. J. Electrochem. Sci.*, 7 (**2012**) 12218 - 12226
13. Mahmoud S. Soliman, **Ehab A. El-Danaf**, Abdulhakim Almajid, "Effect of Equal Channel Angular Pressing Process on Properties of 1050 Al alloy" *Materials & Manufacturing Processes*, 27 (7), 1-5, **2012**.
14. El-Sayed M. Sherif, **Ehab A. El-Danaf**, Mahmoud S. Soliman, Abdulhakim A. Almajid, "Corrosion Passivation in Natural Seawater of Aluminum Alloy 1050 Processed by Equal-Channel-Angular-Press" *Int. J. Electrochem. Sci.*, 7 (**2012**) 2846 – 2859.
15. Magdy ElRayes, **Ehab El-Danaf**, "[The influence of multi-pass friction stir processing on the microstructural and mechanical properties of Aluminum Alloy 6082](#)" *Journal of Materials Processing Technology*, 212 (**2012**) 1157–1168.
16. Mahmoud S Soliman, **Ehab A El-Danaf** Abdulhakim A Almajid, "Enhancement of static and fatigue strength of 1050 Al" Accepted . *Journal Materials Science and Engineering A*, Volume 532, 15 January **2012**, Pages 120-129.

17. Mahmoud T A Abdu; Mahmoud S Soliman,.; **Ehab A El-Danaf**; Abdulhakim Almajid, ; Farghalli A. Mohamed, Creep Characteristics and Microstructure in Nano-Particle Strengthened AA6082. Accepted . *Journal Materials Science and Engineering A, Volume 531, 1 January 2012, Pages 35-44.*
18. **Ehab A. El-Danaf**, Khalil Abdelrazek Khalil, Mahmoud S. Soliman, "Effect of equal-channel angular pressing on superplastic behavior of eutectic Pb–Sn alloy" *Journal Materials and Design* 34 (2012) 235–241.
19. **Ehab A. El-Danaf**, "Mechanical properties, microstructure and micro-texture evolution for 1050AA deformed by equal channel angular pressing (ECAP) and post ECAP plane strain compression using two loading schemes" *Journal Materials & Design*, 34 (2012) 793–807.
20. **Ehab El-Danaf**, Ayman Al-Mutlaq and Mahmoud Soliman, "Role of Stacking Fault Energy on the Deformation Characteristics of Copper Alloys Processed By Plane Strain Compression. *Journal Materials Science and Engineering A*, 528 (2011) 7579– 7588.
21. **Ehab El-Danaf**, Magdy El-Rayes and Mahmoud Soliman, "Low Temperature Enhanced Ductility of Friction Stir Processed 5083 Aluminum Alloy" *Journal Bulletin of Materials Science*, Vol 34, No 7, December 2011, 1-7.
22. **Ehab El-Danaf**, "Mechanical properties, microstructure and texture of single pass equal channel angular pressed 1050, 5083, 6082 and 7010 aluminum alloys with different dies" *Journal Materials & Design, Volume 32, Issue 7, 2011, 3838-3853.*
23. **Ehab El-Danaf**, Mahmoud soliman, Abdulhakim Almajid, " EBSD Investigation of the Microstructure and Microtexture Evolution of 1050 Aluminum Cross Deformed From ECAP to Plane Strain Compression" *Journal of materials science*, 46, 2011, 3291-3308.
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25. **E.A. El-Danaf**, M.S. Soliman and A.A. Almajid, "Texture Manipulation in Commercial Purity Aluminum by Deformation Path Change From ECAP to Plane Strain Compression" *Journal Materials Science Forum Vols. 667-669 (2011) pp 445-450*
26. M.S. Soliman, **E.A. El-Danaf** and A.A. Almajid, "Static and Cyclic Deformation of Commercially Pure Al Processed by Equal-Channel Angular Pressing Using Two Routes" *Journal Materials Science Forum Vols. 667-669 (2011) pp 833-838*
27. M.S. Soliman, **E.A. El-Danaf**, A.A. Almajid "Deformation characteristics of A 6082-Al alloy at high temperatures" TMS Annual Meeting 2010, pp. 77-82.
28. **Ehab A. El-Danaf**, Ayman Al-Mutlak, Mahmoud S. Soliman "Mechanical behavior and texture evolution of Cu-Al alloys processed by plane strain compression" International conference on Applied Mechanics, materials and Manufacturing, ICAMMM 2010, December 13-15, 2010
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30. M.M. El Rayes, **E.A. El Danaf**, M.S. Soliman "Achieving higher ductility of 7010 aluminum alloy via friction stir processing" International conference on Applied Mechanics, materials and Manufacturing, ICAMMM 2010, December 13-15, 2010
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