

## **Refereed Publications**

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### **Patents**

1. Nanostructured thermoplastic polyimide films  
Patent number: 9034426 Issued: May 19, 2015 Assignee: Tuskegee University  
Inventor: Heshmat Aglan <http://patents.justia.com/patent/9034426>
2. Railroad rail head repair (pending)  
Application number: US 20140166766 A1 Publication Date: June 19, 2014  
Assignee: Tuskegee University Inventor: Heshmat Aglan

### **Publications (*Over 120 book chapters and referred publications*)**

### **Refereed Journals**

1. Producing A615 / A615M High Strength Construction Re-Bars Without Use of Microalloys: Part 2, I. Okafor, K. Prayakarao, H. A. Aglan, Mechanics, Materials Science & Engineering, October 2015.
2. Effect of Preheating Temperature on the Microstructural Features of Welded Rail Head, K. Prayakarao and H. Aglan, (2015) Microsc. Microanal. 21 (Suppl 3), pp 1761-1762.
3. Microscopic Origin of Strength and Microhardness of titanium Alloy at Elevated Temperature, M. Islam, C. Fermin and H. Aglan, (2015) Microanal. 21 (Suppl 3), 287-288.
4. Effect of fumed silica nanoparticles on the proton conductivity of polyimide–phosphoric anhydride membranes. (2014).Sharmin, K., Abdalla, M. A., & Aglan, H. A. Journal Of Elastomers & Plastics, 46(1), 43
5. Noise Removal in Speech Processing Using Spectral Subtraction. Karam, M. , Khazaal, H., Aglan, H. and Cole, C. (2014) Journal of Signal and Information Processing, 5, 32-41.
6. Impact of Enhanced Drying and Remediation on Mold in Flooded Buildings (2014), Aglan, H.A., Sept./Oct 2014. <http://www.homeenergy.org/show/article/id/1990>.
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12. Effect of Preheating Temperature on the Mechanical and Fracture Properties of Welded Pearlitic Rail Steels, H. Aglan, S. Ahmed, K. Prayakarao and M. Fateh, *Engineering Journal*, Vol. 11, 2013.
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## Presentations

Dr. Aglan and his research team have delivered more than 100 presentations at national and international conferences.

## **Book Chapters**

120. Processing conditions and Durability of Polypropylene Films. H. Aglan and Y.X. Gan, In Handbook of Plastic Films., E. Abdel-bary (Ed.), 1998, Smither Rapra Press.
121. Modifiers for Improved Performance of Asphaltic Mixtures, Heshmat A. Aglan in Asphalt Science and Technology, A. Usmani ed. CRC Press. 1997.
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