

Retraction

Retracted: Enhancing Microstructure and Mechanical Properties of AZ31-MWCNT Nanocomposites through Mechanical Alloying

Advances in Materials Science and Engineering

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Advances in Materials Science and Engineering has retracted the article titled “Enhancing Microstructure and Mechanical Properties of AZ31-MWCNT Nanocomposites through Mechanical Alloying” [1]. The corresponding author apologizes and the authors agree with retraction. The article was found to contain a substantial amount of material, without citation, from the following published articles:

Figures and Text

- (i) Wording in the section “3.1. Microstructure Analysis” and Figure 5 were from Hiroyuki Fukuda, Katsuyoshi Kondoh, Junko Umeda, Bunshi Fugetsu: Interfacial analysis between Mg matrix and carbon nanotubes in Mg–6 wt.% Al alloy matrix composites reinforced with carbon nanotubes. *Composites Science and Technology* 2011, Vol. 71(5): 705–709. DOI: 10.1016/j.compscitech.2011.01.015
- (ii) Wording in the section “3.1. Microstructure Analysis” and Figure 4 were from M.S. Senthil Saravanan, S.P. Kumaresh Babu, K. Sivaprasad: Mechanically Alloyed Carbon Nanotubes (CNT) Reinforced Nanocrystalline AA 4032: Synthesis and Characterization. *Journal of Minerals & Materials Characterization & Engineering*, Vol. 9, No. 11, pp. 1027–1035, 2010

Text

- (iii) C S Goh, J Wei, L C Lee and M Gupta: Development of novel carbon nanotube reinforced magnesium nanocomposites using the powder metallurgy technique. *Nanotechnology*, Volume 17, Number 1. Published 25 November 2005 (cited in the background, but not in the section “3.2. Mechanical Properties”)
- (iv) Ahmed Sayed Salim Mohamed: Fabrication and Properties of Carbon Nanotube (CNT) – Reinforced

Aluminium Composites. The American University in Cairo School of Sciences & Engineering, Spring 2010

Figure

- (v) Figure 8(a) was simultaneously published as Figure 1 in J. Jayakumar, B. K. Raghunath, T. H. Rao: Investigation on Fracture Mechanisms in Mg alloy AZ31 Nano Composites Reinforced with Multi Wall Carbon Nano Tubes. *International Journal of Innovative Research in Science, Engineering and Technology*, Vol. 2, Issue 9, September 2013

References

- [1] J. Jayakumar, B. K. Raghunath, and T. H. Rao, “Enhancing microstructure and mechanical properties of AZ31-MWCNT nanocomposites through mechanical alloying,” *Advances in Materials Science and Engineering*, vol. 2013, Article ID 539027, 6 pages, 2013.