

Retraction

It has been brought to the attention of *Wear* journal that a recent paper published online in *Materials Research* by co-authors Rahul Sinha and A Mukhopadhyay contains certain content that was published previously in *Wear*. The subject article is:

SINHA, Rahul and MUKHOPADHYAY, Alok Kumar. Load Dependent Wear Analysis of Manganese Steels - Influence of Al Content. *Mat. Res.*[online]. In press. Epub June 26, 2017. ISSN 1516-1439. <http://dx.doi.org/10.1590/1980-5373-mr-2017-0169>

The prior article in *Wear* is as follows:

O.A. Zambrano, Yesid Aguilar, Jairo Valdés, S.A. Rodríguez, J.J. Coronado, “Effect of normal load on abrasive wear resistance and wear micromechanisms in FeMnAlC alloy and other austenitic steels”, *Wear*, Vol. 348–349, 15 February 2016, Pages 61-68.

Examination of several images in the *Materials Research* paper indicates that they are clearly those previously published by Zambrano et al. in 2016. The steel micrographs claimed as depicting the specimen materials by Sinha and Mukhopadhyay were in fact images of other steels that were the subject of the earlier Zambrano paper. Specifically, the Sinha and Mukhopadhyay paper contains identical figures (Fig. 1(a), (b), (c)). Except for the labels in the *Wear* paper that identify the steels, the SEM images in Figures 3 (a,b,c) of Sinha’s recent paper clearly match Figures 4 (a,b,c) of the Zambrano paper. Likewise, Figures 4 (a,b,c) of Sinha match exactly with Figures 6 (a,b,c) of the Zambrano paper. In addition, some written content in the subject paper is also very similar to that in the prior paper.

Based on the convincing nature of the evidence and the statements of the author of the *Wear* paper, we feel that the subject paper in *Materials Research* contains material that was taken without the knowledge or approval of the original authors from the *Wear* journal article and was misrepresented as being original work of Sinha and Mukhopadhyay.

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