

Corrigendum

Errata to "Auger Electron Spectroscopy Analysis of W diffused from WC Grain into Co Regions in Cutting Tools" [*J. Surf. Anal.* **21**, 2-9 (2014)]

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This article [*J. Surf. Anal.* **21**, 2-9 (2014)] was originally published with three errors.

1. In the third sentence of the last paragraph in [2.3. Measurement of AES line profile] on page 3, "The concentrations of Co and W were 90.2 and 9.8 at%," should be replaced by "The concentrations of Co and W were 96.7 and 3.3 at%, and the weight concentrations were 90.2 and 9.8 wt%, respectively."

2. It was pointed out that the equation for the backscattering factor R was inadequately used for calculating AMRSF [1]. In spite of the fact that the equation is valid only for incident electron energies ranging from 3 to 10 keV [2], the incident electron energy in our study was 20 keV. Therefore, we used the equation for R valid for a wider incident energy range of 3 to 30 keV [3]. In addition, during the revision according to the comments in [1], mistakes in calculation of AMRSFs were found [4]. The corrected values of AMRSFs and concentrations were as follows.

2-1. In the last sentence of the last paragraph in [2.3. Measurement of AES line profile] on page 3, "The calculated AMRSFs of W-MNN and Co-LMM were 0.401 and 0.161," should be replaced by "The calculated AMRSFs of W-MNN and Co-LMM were 0.407 and 0.116,"

2-2. In the 8th line of page 5, "estimated to be 2.4 at%" should be replaced by "estimated to be 1.7 at%".

References

- [1] M. Suzuki, *J. Surf. Anal.* **24**, 61 (2017).
- [2] ISO 18118: 2004, Surface chemical analysis-Auger electron spectroscopy and X-ray photoelectron spectroscopy-Guide to the use of experimentally determined relative sensitivity factors for the quantitative analysis of homogeneous materials
- [3] S. Tanuma, *J. Surf. Anal.* **15**, 312 (2009).
- [4] H. Okumura and K. Mine, *J. Surf. Anal.* **24**, 62 (2017).