KEYNOTE FORUM | **DAY 1** *JOURNAL OF NANOMATERIALS & MOLECULAR NANOTECHNOLOGY, VOLUME 8 | DOI: 10.4172/2324-8777-C2-058*

Examination and measurement of the corrosion resistance rate of copper sulfide ore on nano high entropy alloy/graphene composite coating

Hardening is a method for protecting metal equipment, metal tools, or important components against erosion, tension, and corrosion. In this respect, a thin layer of corrosion-resistant metal is welded on the surface of the workpiece. This process is very useful for improving resistance against abrasion and corrosion. As nanotechnology develops, one of the most important properties of materials, namely their surface resistance against destructive phenomena such as abrasion, impact, erosion, and corrosion, could be improved. Enjoying favorable abrasion resistance is considered as one of the most important indicators of piece-part quality in many industries. The useful life of piece-parts could be significantly increased by applying abrasion-resistant coatings, reducing repair or replacement costs associated with damaged parts subsequently. Besides, this process amounts to an inexpensive method in the production of parts and is economically justifiable. Abrasion-resistant coatings could be applied to mining equipment exposed to abrasion and impact. This study is focused on measuring the abrasion resistance of nano high entropy alloy/graphene composite on copper sulfide ore. This nano coating is a modern method for hardening the ball and lining of mining grinding mills.

Biography

Mohammadreza Heydartaemeh has his expertise in mineral processing and advanced Nanotechnology. He improved the Nano size of hard coating materials (Advanced Nano High Entropy Alloys). He has been as a top Lecturer at the center of art & culture education applied science & technology at the University of Tehran. He has a great deal of work experience as a research scientist in various subjects related to "Nano Technology in Mineral Processing and Nano Powder produce. His scientific and industrial findings have been published in several conferences, 27 journal papers, and 31 patents which resulted in receiving several awards. Editor in Chief, Reviewer, and authoring at more than 100 Articles (More than 20 ISI Journal & Conference in the USA).

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