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Nano-coating aluminum alloys after 3D printing

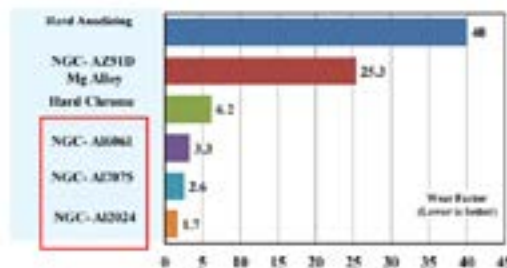
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A novel green coating presented that can be applied to aluminum alloys printed parts for the aerospace industries. The ultimate goal is to offer the option of replacing conventional and heavy metal parts with coated aluminum parts that provide the same strength and increase lifetime through improved mechanical and tribological properties. Furthermore, it presents a solution to the Aluminum 3D printing industry by addressing the material's technical challenges with corrosion and wear. The proposed coatings will also eliminate the current environmental negative impacts other industrial coating methods have.

Characteristics of NGC process

Tribological behavior



Biography

Mehdi Atabaki has his expertise in materials science and engineering enriched with mechanical engineering insights. He's been developing advanced manufacturing techniques for better production in variety of metal fabrication industries.

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