

## MANUFACTURING OF NANO/MICRO COMPOSITES USING FRICTION STIR PROCESSING

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### ABSTRACT

Compared with unreinforced metals, metal-matrix composites reinforced with ceramic phases exhibit high strength, high elastic modulus, and improved resistance to wear, creep and fatigue, which make them promising structural materials for aerospace and automobile industries. This article reviews various researches concerning the fabrication of nano and micro metal-matrix composites using the novel technique of friction stir processing, FSP.

**KEYWORDS:** Nano Composite, Metal-Matrix Composite, Aluminum-Matrix Composite, Friction Stir Process, Ceramic Particles, Novel Technique