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Tribological and surface behavior of Silicon carbide reinforced aluminum matrix nanocomposite

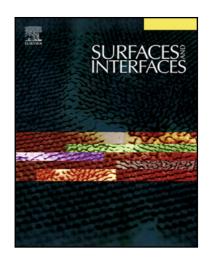
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Highlights

- Al 6061 reinforced with nanometric SiC were successfully fabricated using ultrasonic cavitation based solidification process.
- The Wear resistant of nanocomposite is higher than that of Al alloy.
- The Coefficient of friction of nanocomposite was significantly improved as compared to Al alloy.
- Nanocomposite worn surface shows smooth surfaces, but the worn surfaces of Al alloy indicate rough surface.

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